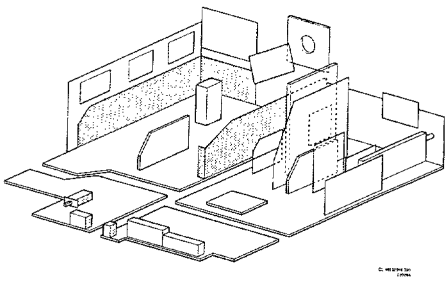
PHILIPS 32PW962B

MODEL

SERVICE MANUAL

Colour television **Chassis**

Service
Service
Service



FL2.24
FL2.26
FL4.27

AA

Service Manual

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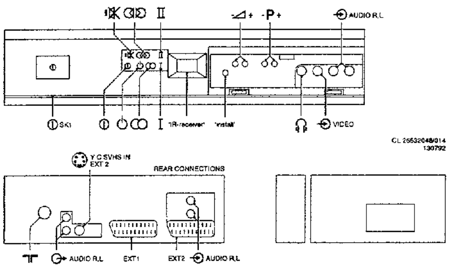
1. Technical data

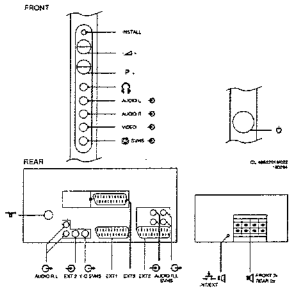
Mains voltage	: 220 - 240 V (± 10%)
	: 50 Hz - 60 Hz (± 5%)
Aerial input impedance	: 75 Ω - koaxial
Minimum aerial voltage	: 30 μV (VHF), 40 μV (UHF)
Maximum aerial voltage VHF/S/UHF	: 180 mV
Programmes	: 0 - 99
VCR programmes	: 0, 50 - 99

2. Connection facilities and Chassis overview

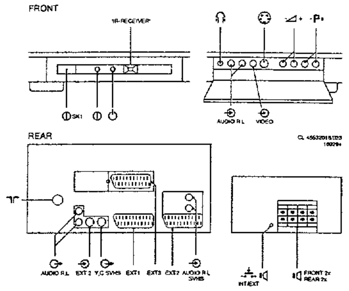
FL1


⊕ AUDIO R,L
SK1
'IR-receiver'
'install'
⊕ VIDEO
CL 26532048/014
130792
Y,C SVHS IN
EXT 2
REAR CONNECTIONS
○→ AUDIO R,L
EXT1
EXT2
⊕ AUDIO R,L

FL2


FRONT
INSTALL
P
AUDIO L ⊕
AUDIO R ⊕
VIDEO ⊕
SVHS ⊕
REAR
AUDIO R,L
EXT 2
Y,C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

FL4


FRONT
'IR-RECEIVER'
SK1
AUDIO R,L
VIDEO
REAR
CL 45632018/023
160294
AUDIO R,L
EXT 2
Y,C SVHS
EXT1
EXT3
EXT2
AUDIO R,L
SVHS
INT/EXT
FRONT 2x
REAR 2x

Specification of the connectors

EXT1 (AUX): RGB+CVBS

1 -Audio ○→ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ○→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 -Blue ⊥
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 -Blue (0,7V_{pp}/75Ω)
8 -CVBS-status ⊕ 0-2V: INT
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
9 -Green ⊥
10 --
11 -Green (0,7V_{pp}/75Ω)
12 --
13 -Red ⊥
14 -RGB-status
15 -Red (0,7V_{pp}/75Ω)
16 -RGB-status (0-0,4V: INT)
(1-3V: EXT/75Ω)
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ○→ (1V_{pp}/75Ω)
20 -CVBS ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (VCR): Y/C+CVBS

1 -Audio ○→ R(0,5VRMS ≤ 1kΩ)
2 -Audio ⊕ R(0,2-2VRMS ≥ 10kΩ)
3 -Audio ○→ L(0,5VRMS ≤ 1kΩ)
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10kΩ)
7 --
8 -CVBS-status ⊕ 0-2V: int
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3
⊕ 4,5: EXT 16:9
9 --
10 --
11 --
12 --
13 -CHROMA ⊥
14 --
15 -CHROMA ⊕ (1V_{pp}/75Ω)
16 --
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ○→ (1V_{pp}/75Ω)
20 -CVBS/Y ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT3: CVBS

1 --
2 -Audio ⊕ R(0,2-2VRMS ≥ 10k
3 --
4 -Audio ⊥
5 --
6 -Audio ⊕ L(0,2-2VRMS ≥ 10k
7 --
8 --
9 --
10 --
11 --
12 --
13 --
14 --
15 --
16 --
17 --
18 -CVBS ⊥
19 --
20 -CVBS ⊕ (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (SVHS) (rear)

SVHS
1 - ⊥
2 - ⊥
3 - Y ⊕ (1V_{pp}; 75Ω)
4 - C ⊕ (0,3V_{pp}; 75Ω)

◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

Audio out (rear)

◎ CINCH Audio ○→ L(0,5VRMS; ≤ 1kΩ)
◎ CINCH Audio ○→ R(0,5VRMS; ≤ 1kΩ)

EXT3 (front)

◎ CINCH Video ⊕ 300mV_{pp}/75Ω
◎ CINCH Audio ⊕ L(0,5VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊕ R(0,5VRMS; ≥ 10kΩ)

◉ 3.5mm 32-2000Ω ≥ 10mW

Erratum

GB

In this reprinted service manual the following diagrams have been replaced:

Diagram		Page
Block diagram		4
Source Select	(Diagram C)	7
Synchronisation FLx.26/.27	(Diagram B)	8
Video processing	(Diagram D)	9
Synchronisation FLx.24	(Diagram B)	10
Sound Processing	(Diagram F)	11
Power supply FLx.26/.27	(Diagram A)	12
SCAVEM	(Diagram Z)	18
PiP	(Diagram J)	21
LFR box	(Diagram M)	22

The following Service Informations are included:

FL 94.03
FL 94.05

Corrections to Chapter 7

Paragraph 3.2 and 3.4

Actual	Must be
(fig. 7.9)	(fig. 7.4)
7.64µs	6.4µs
Figure 7.4	
744µs ± 175ns	6.4µs ± 175ns

Corrections to Chapter 8

Paragraph 5

In some versions it is not possible to re-route the signal path after removing the PiP module because of the use of different connectors.

Paragraph 8.4.1 and 8.4.2

Error message 99 (software protection) is not indicated by the LED's any more.
In case of hardware protection the set switches to stand-by and back on again, once in every few seconds.
Just before switching to stand-by, in case of protection, both red and green LED's light up.

Erratum

Ⓓ

In diese Nachdruck der Service Manual sind die folgende Schaltbilder geändert worden.

Schaltbild		**Seite**
Blockschaltbild		4
Quellenwahl	(Schaltbild C)	7
Synchronisierung FLx.26/.27	(Schaltbild B)	8
Video Verarbeitung	(Schaltbild D)	9
Synchronisierung FLx.24	(Schaltbild B)	10
Ton Verarbeitung	(Schaltbild F)	11
Stromversorgung FLx.26/.27	(Schaltbild A)	12
SCAVEM	(Schaltbild Z)	18
Bild im Bild	(Schaltbild J)	21
LFR box	(Schaltbild M)	22

Die folgenden Service Informationen sind Beigeliefert:

FL 94.03
FL 94.05

Korrekturen zur Kapitel 7

Paragraph 3.2 und 3.4

Jetzt	Muß sein
(Abb. 7.9)	(Abb. 7.4)
7.64µs	6.4µs

Abbildung 7.4	
744µs ± 175ns	6.4µs ± 175ns

Korrekturen zur Kapitel 8

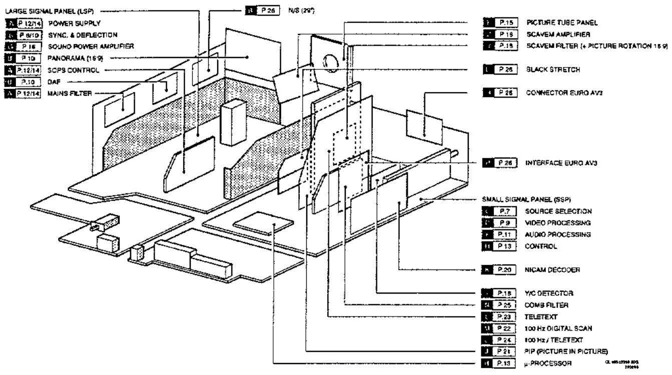
Paragraph 5

In manche Versionen ist es nicht möglich um das Signal durch zu fuhren, wenn das Bild im Bild Modul entfernt ist, weil unterschiedliche Stecker gebraucht worden sind.

Paragraph 8.4.1 und 8.4.2

Fehlermeldung 99 (Software-Schutz) wird nicht mehr angezeigt von der LED's.
Wenn die Hardware-Schutz aktiv ist, schaltet das Gerät zu Stand-by und wieder ein, mit ein Frequenz von einmal in einige Sekunden.
Kurz bevor das Gerät zu Stand-by geschaltet wird, leuchten beide LED's gleichzeitig auf.

Chassis overview


LARGE SIGNAL PANEL (LSP)
P 12/14 POWER SUPPLY
P 8/10 SYNC. & DEFLECTION
P 16 SOUND POWER AMPLIFIER
P 10 PANORAMA (16:9)
P.12/14 SCPS CONTROL
P.10 DAF
P 12/14 MAINS FILTER
P 26 N/S (29")
P.15 PICTURE TUBE PANEL
P 15 SCAVEM AMPLIFIER
P.15 SCAVEM FILTER (+ PICTURE ROTATION 16:9)
P 26 BLACK STRETCH
P 26 CONNECTOR EURO AV3
P 26 INTERFACE EURO AV3
SMALL SIGNAL PANEL (SSP)
P.7 SOURCE SELECTION
P 9 VIDEO PROCESSING
P.11 AUDIO PROCESSING
P 13 CONTROL
P.20 NICAM DECODER
P.18 Y/C DETECTOR
P 25 COMB FILTER
P.23 TELETEXT
P 22 100 Hz DIGITAL SCAN
P 24 100 Hz / TELETEXT
P 21 PIP (PICTURE IN PICTURE)
P.13 µ-PROCESSOR

3. Warnings and Notes

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD** ⚠

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -16/-11 volts.**

11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⏚), or hot earth (⊥) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (⊓⊓) and without aerial signal (⊓̸) Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏼). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

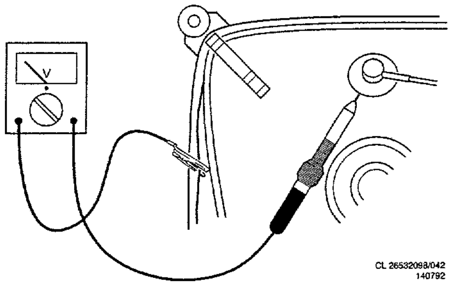

V
CL 26532098/042
140792

Fig. 3.1

4. Mechanical instructions

It is extremely important that following disassembly all cables are replaced in their original positions in order that safety and sound and picture quality may be guaranteed.

1. Model overview (fig. 1)

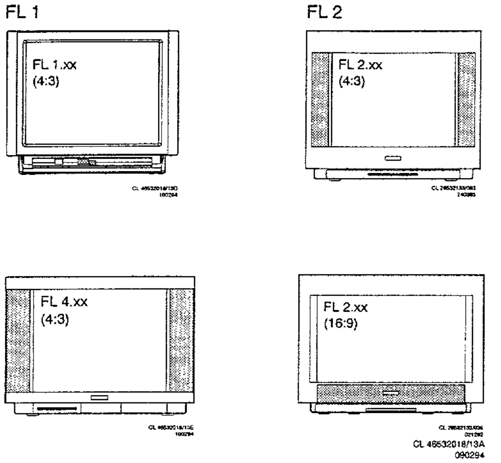


Fig. 4.1

2. Removing the rear panel (fig. 2 + 3)

Before the rear panel is removed the connection to the subwoofer should first be disconnected:
FL1: Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)
FL2: Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.
Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present or lugs E for FL4.
Remove the rear panel from the set.

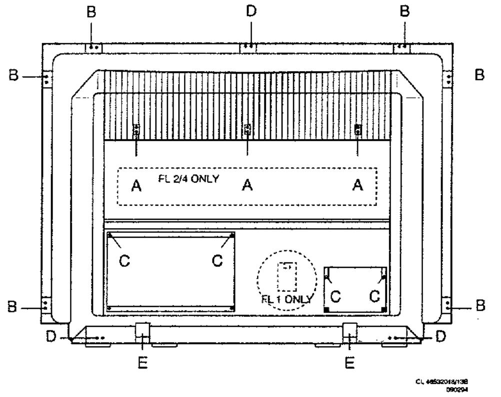


Fig. 4.2

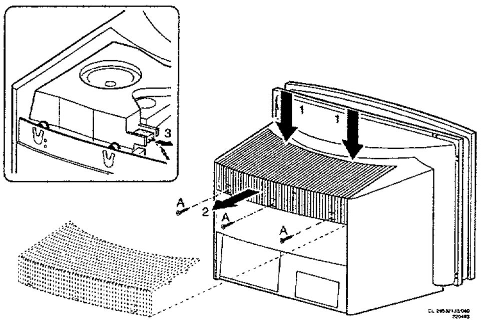


Fig. 4.3

3. Service positions FL1

FL1 can be placed in two service positions. (Fig. 4)
Remove the rear panel. Remove the screw behind the flap on the front side of the set.

Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary. Place the panels vertically behind the set as illustrated in figure 4a.

Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

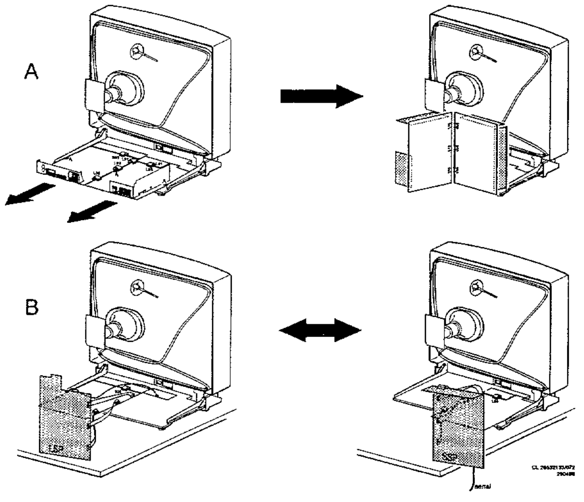


Fig. 4.4

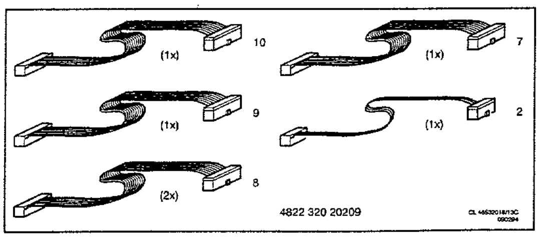


Fig. 4.5

4. Service positions FL2 (fig. 6)

FL2 can be placed in two service positions. (fig.6)
Remove the rear panel.

Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).
Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

Service position 2:

Place the chassis in service position 1.
Click the infra-red receiver (IR) out of the retainer located under the picture tube.
Remove the cables to the panel with buttons for

local operation from their ties and then click the operating panel out of its holder.
Disconnect the cable to the degaussing coil on the picture tube from the mains filter panel.
Remove the cables from and to the mains filter from their cable ties. Click the two service legs loose and place them vertically in the holes as indicated in the diagram. Tilt the entire chassis frame and place the entire unit on both service legs so that the solder side is accessible.

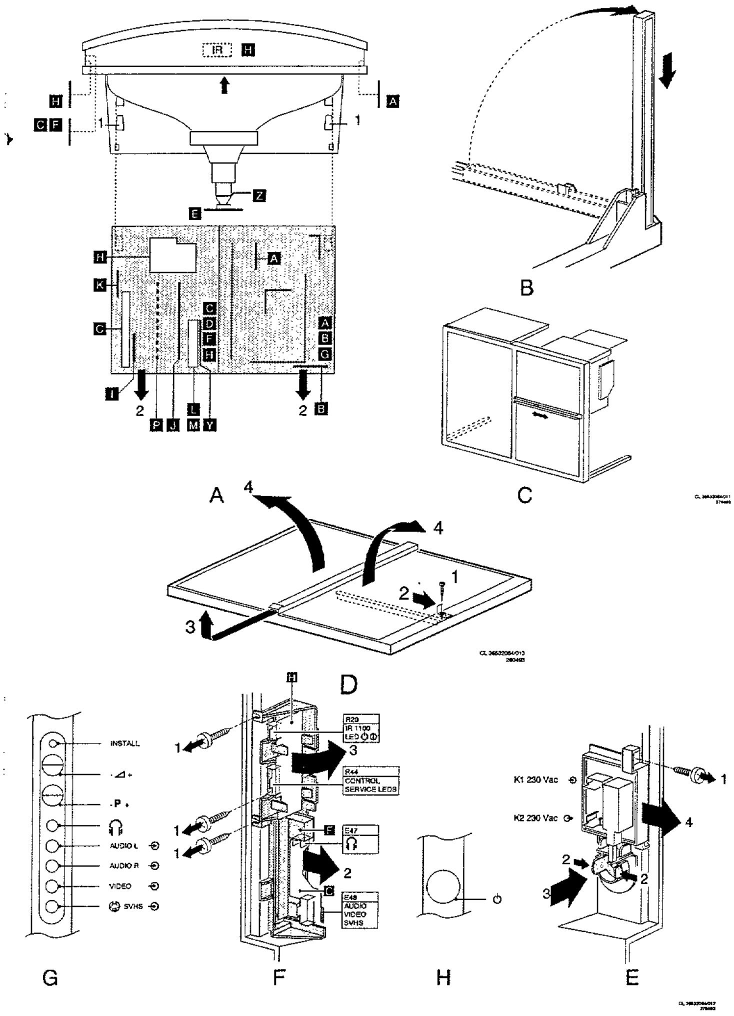

IR
H
A
C
F
1
1
Z
E
H
K
G
A
C
D
F
H
A
B
G
2
2
I
P
J
L
M
Y
B
B
C
A
4
4
3
2
1
D
R20
IR 1100
LED
3
R44
CONTROL
SERVICE LEDS
E47
E48
AUDIO
VIDEO
SVHS
2
INSTALL
P
AUDIO L
AUDIO R
VIDEO
SVHS
1
1
1
K1 230 Vac
K2 230 Vac
1
4
2
2
3
G
F
H
E

Fig. 4.6

5. **Service position FL4 (fig. 7)**

An FL4 model can be put into service position 1 in the same manner as an FL2 model.
Service position 2 is accomplished by tilting the whole frame once the cabling has been disconnected (the cable to the front connectors (E47, E48) may be disconnected). A stud on the frame and a hook on the case ensure a stable service position.

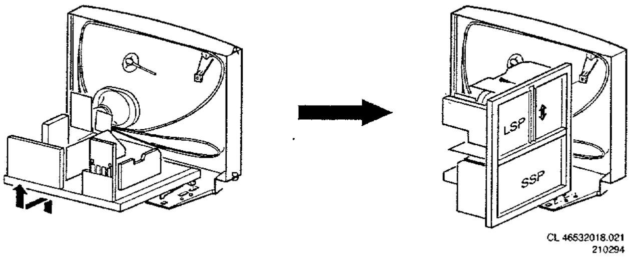

LSP
SSP
CL 46532018.021
210294

Fig. 4.7

6. **Removing the mask from FL2 (fig. 8)**

Remove the rear panel. Remove the chassis frame with the chassis from the cabinet.
Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

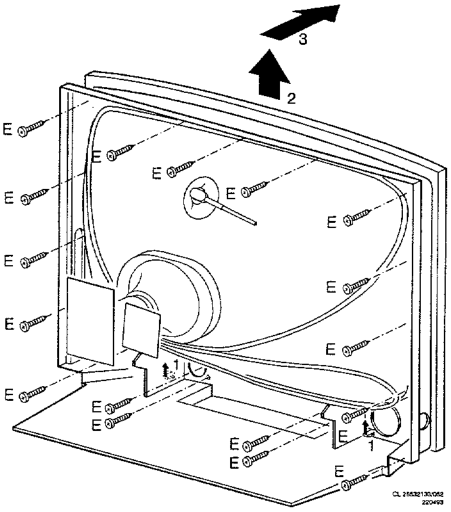

3
2
E
E
E
E
E
E
E
E
E
E
E
E
E
E
E
E
E
1
1

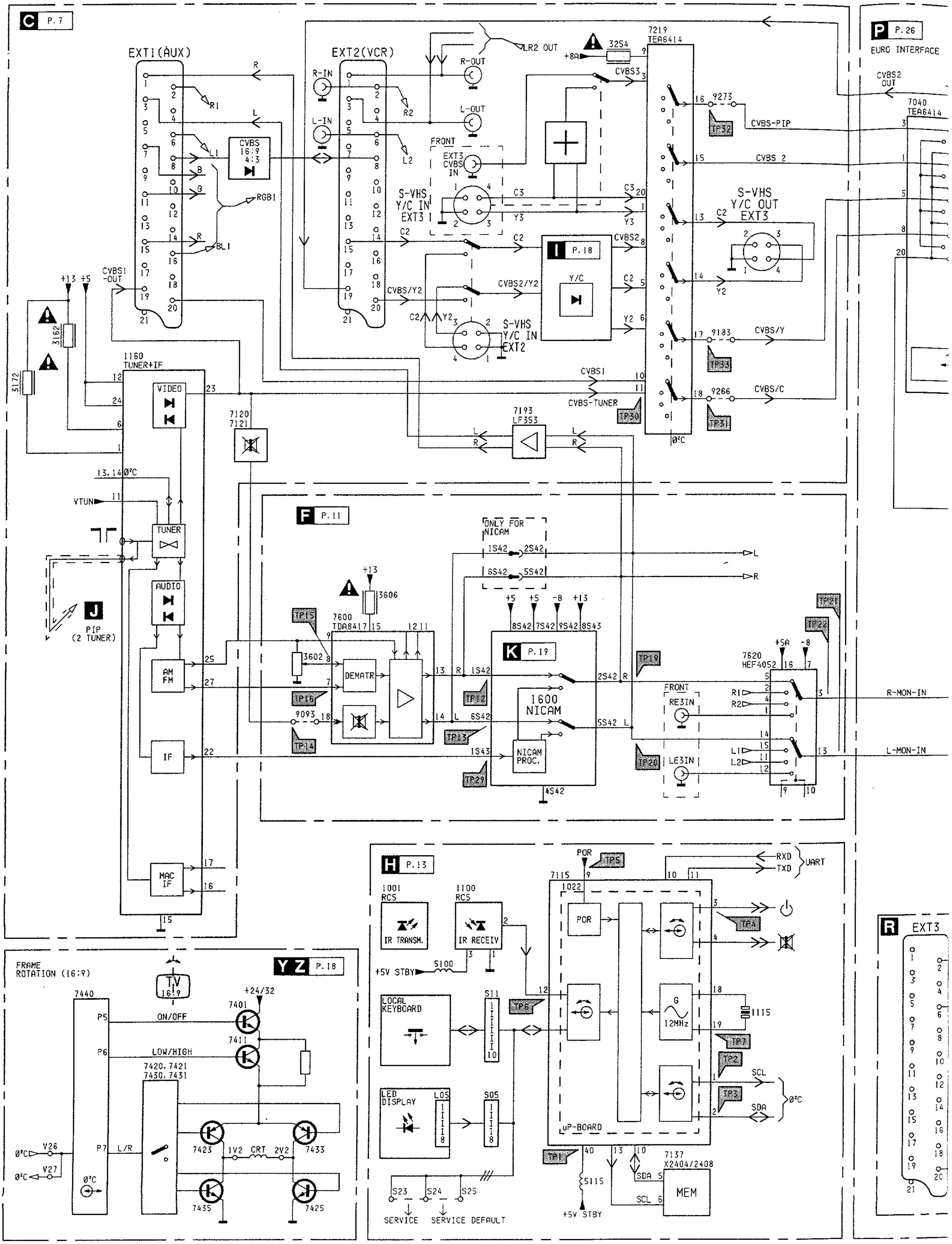
Fig. 4.8

7. **Replacing the picture tube.**

Remove the rear panel.
Discharge the picture tube in the manner described in chapter 3. Remove the chassis, or the chassis with the chassis frame from the cabinet. Disconnect all cabling to the picture tube. Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface. Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface. The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing. Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:
For 28" picture tubes and smaller: 4822 532 12243 (≤ 28")
For 29" picture tubes and larger: 4822 404 31294 (≥ 29")
Four tubular rivets are required per picture tube.

Blockdiagram / Blockschaltbild /


C P.7
EXT1(AUX)
EXT2(VCR)
R-IN
L-IN
R-OUT
L-OUT
LR2 OUT
CVBS 16:9 4:3
RGB1
BL1
CVBS1 -OUT
+13 +5
3162
3172
FRONT
EXT3 CVBS IN
S-VHS Y/C IN EXT3
S-VHS Y/C IN EXT2
3254
+8A
7219 TEA6414
CVBS3
C3
Y3
C2
Y2
CVBS2
CVBS/Y2
CVBS2/Y2
I P.18
Y/C
CVBS1
CVBS-TUNER
9273
CVBS-PIP
CVBS 2
S-VHS Y/C OUT EXT3
9183
CVBS/Y
9266
CVBS/C
TP32
TP33
TP30
TP31
P P.26
EURO INTERFACE
CVBS2 OUT
7040 TEA6414
1160 TUNER+IF
VIDEO
TUNER
AUDIO
AM FM
IF
MAC IF
13,14 0°C
VTUN
J
PIP (2 TUNER)
7120 7121
7193 LF353
F P.11
ONLY FOR NICAM
1S42 2S42
6S42 5S42
+13
3606
7600 TDA8417
DEMATR
3602
9093
TP15
TP16
TP14
TP12
TP13
TP27
TP19
TP20
TP21
TP22
K P.19
1600 NICAM
NICAM PROC.
8S42 7S42 9S42 8S43
4S42
1S43
+5 +5 -8 +13
7620 HEF4052
+5A -8
FRONT
RE3IN
LE3IN
R1 R2 L1 L2
R-MON-IN
L-MON-IN
H P.13
1001 RC5 IR TRANSM.
1100 RC5 IR RECEIV
+5V STBY
5100
LOCAL KEYBOARD
S11
LED DISPLAY
L05
S05
S23 S24 S25
SERVICE
SERVICE DEFAULT
POR
TP5
7115
1022
12MHz
1115
uP-BOARD
RXD
TXD
UART
SCL
SDA
0°C
TP1 TP2 TP3 TP4 TP6 TP7
5115
+5V STBY
7137 X2404/2408
MEM
YZ P.18
FRAME ROTATION (16:9)
TV 16:9
7440
P5 P6 P7
ON/OFF
LOW/HIGH
L/R
+24/32
7401
7411
7420,7421 7430,7431
7423 7433 7435 7425
1V2 CRT 2V2
V26 V27
R EXT3

PCS 41732

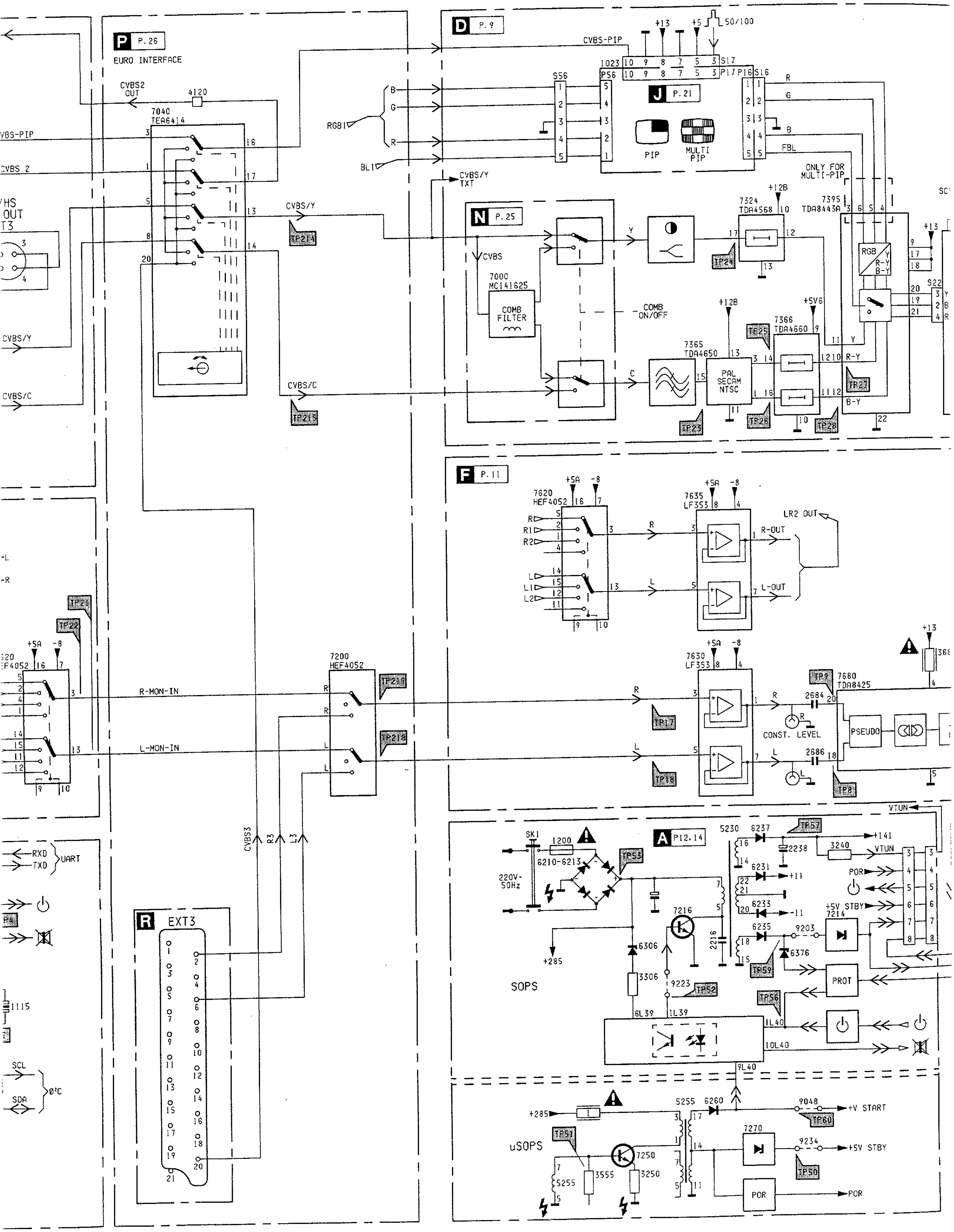
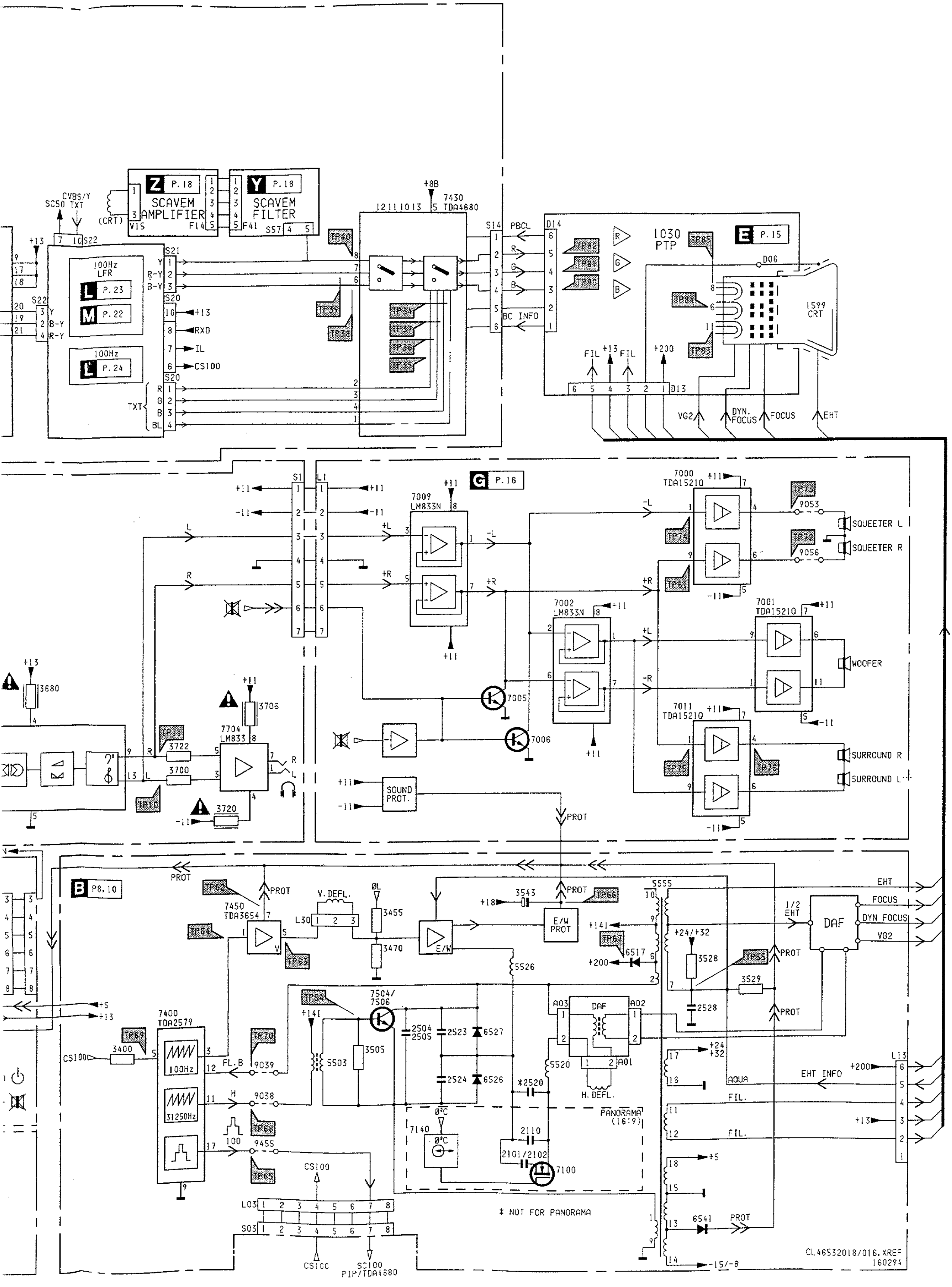
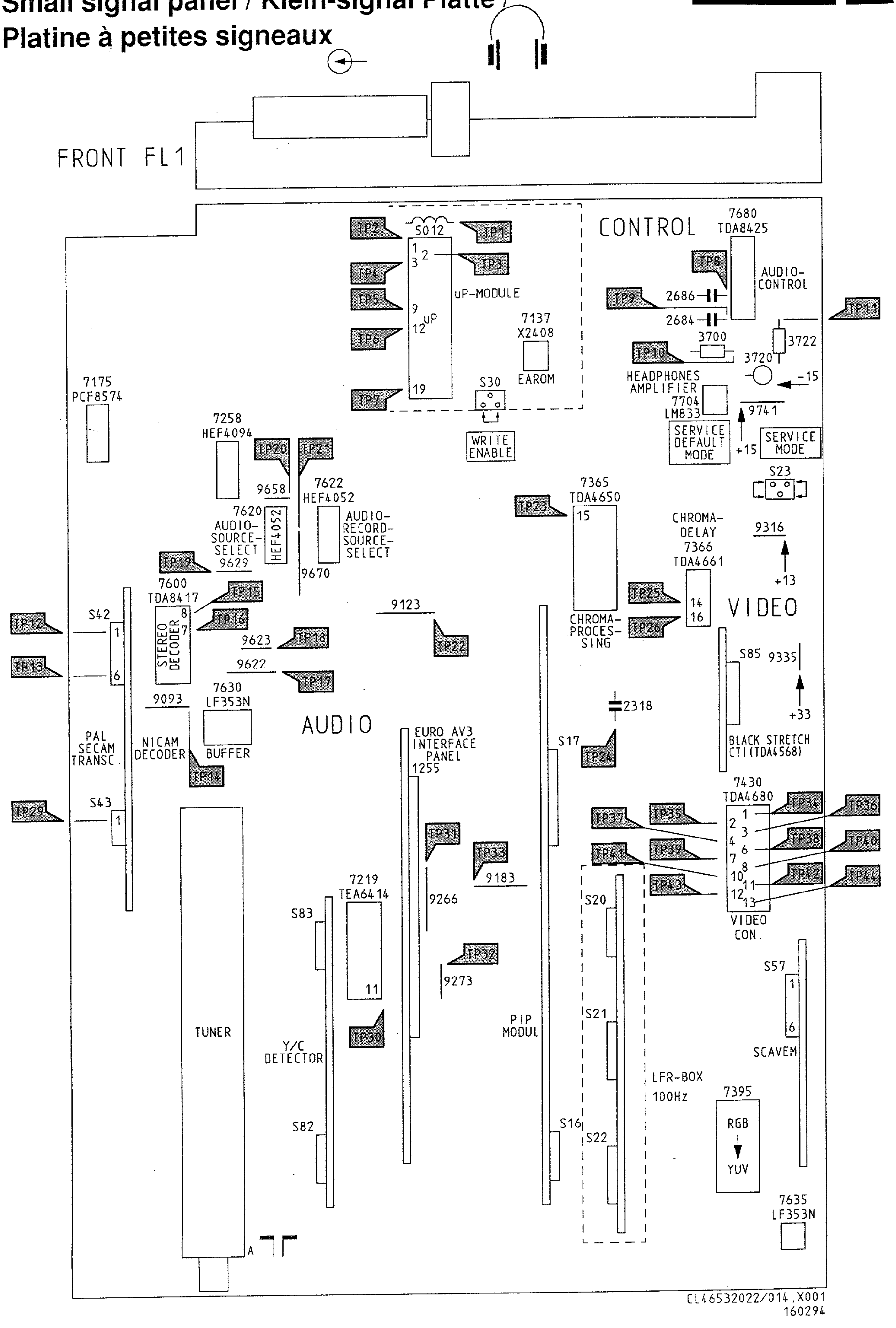

P P.26
EURO INTERFACE
CVBS2 OUT
4120
7040 TEA6414
VBS-PIP
CVBS 2
VHS OUT T3
CVBS/Y
CVBS/C
CVBS/Y
CVBS/C
TP214
TP215
D P.9
CVBS-PIP
+13
+5
50/100
1023
S17
P56
P17 P16 S16
S56
J P.21
PIP
MULTI PIP
RGB1
BL1
B
G
R
FBL
ONLY FOR MULTI-PIP
CVBS/Y TXT
N P.25
CVBS
7000 MC141625
COMB FILTER
COMB ON/OFF
Y
C
+12B
7324 TDA4568
TP24
7395 TDA8443A
RGB
R-Y
B-Y
7365 TDA4650
PAL SECAM NTSC
7366 TDA4660
+5V6
TP25
TP23
TP26
TP27
TP28
S22
+13
F P.11
+5A
-8
7620 HEF4052
7635 LF353
R
R1
R2
L
L1
L2
LR2 OUT
R-OUT
L-OUT
7630 LF353
7680 TDA8425
TP9
TP8
TP17
TP18
2684
2686
CONST. LEVEL
PSEUDO
7200 HEF4052
R-MON-IN
L-MON-IN
TP219
TP218
TP21
TP22
7620 HEF4052
-L
-R
CVBS3
R3
L3
R EXT3
RXD
TXD
UART
SCL
SDA
I²C
1115
TP4
A P12,14
SK1
1200
6210-6213
220V~ 50Hz
TP55
+285
5230
6237
2238
3240
+141
VTUN
+11
-11
6231
6233
6235
9203
6376
7214
+5V STBY
POR
PROT
7216
2216
6306
3306
9223
TP52
TP57
TP59
TP56
SOPS
6L39
1L39
1L40
10L40
9L40
uSOPS
+285
5255
6260
9048
+V START
TP60
7270
9234
+5V STBY
TP50
TP51
7250
3555
3250
POR

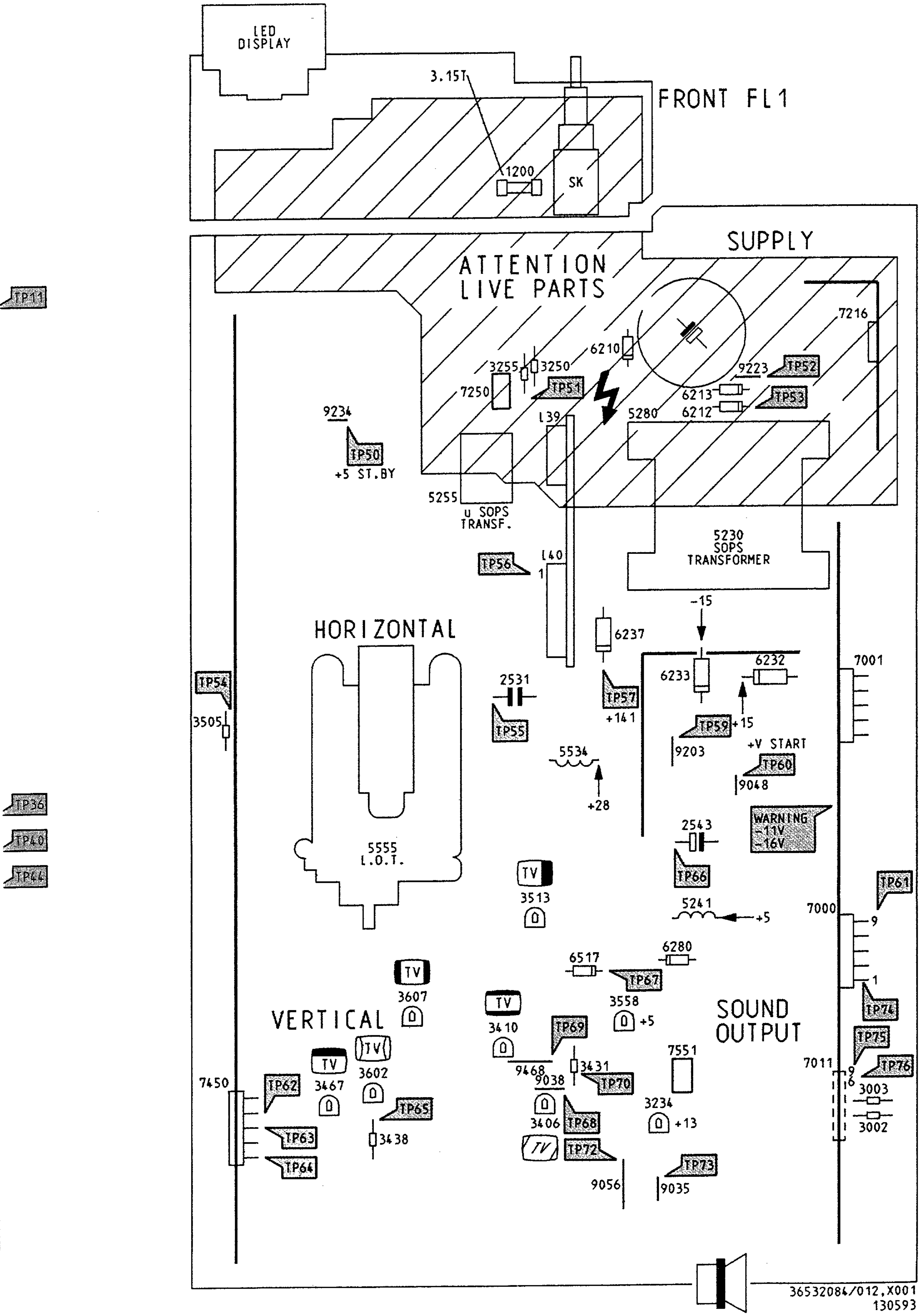
Diagramme schématique


Z P.18
SCAVEM AMPLIFIER
Y P.18
SCAVEM FILTER
CVBS/Y TXT
SC50
(CRT)
V15
F14
F41
S57
S22
+13
S21
Y
R-Y
B-Y
100Hz LFR
L P.23
M P.22
100Hz
L' P.24
S20
+13
RXD
IL
CS100
TXT
R
G
B
BL
+8B
7430 TDA4680
12 11 10 13
S14
PBCL
R
G
B
BC INFO
TP40
TP39
TP38
TP34
TP37
TP36
TP35
D14
1030 PTP
E P.15
TP85
TP82
TP81
TP80
TP84
TP83
D06
1599 CRT
FIL
+13
FIL
+200
D13
VG2
DYN. FOCUS
FOCUS
EHT
G P.16
S1
L1
+11
-11
L
R
7009 LM833N
+L
+R
-L
7000 TDA1521Q
TP73
9053
SQUEETER L
TP74
TP72
9056
SQUEETER R
TP61
7002 LM833N
7001 TDA1521Q
WOOFER
7005
7006
7011 TDA1521Q
SURROUND R
SURROUND L
TP75
TP76
+13
3680
+11
3706
7704 LM833
TP11
3722
3700
TP10
3720
SOUND PROT.
PROT
B P8,10
PROT
TP62
7450 TDA3654
TP64
TP63
V. DEFL.
L30
ØL
3455
3470
3543
+18
TP66
E/W PROT
E/W
5555
+141
+24/+32
TP67
6517
+200
3528
TP55
EHT
1/2 EHT
DAF
FOCUS
DYN FOCUS
VG2
5526
3529
2528
PROT
+5
+13
7400 TDA2579
TP69
3400
CS100
100Hz
31250Hz
TP70
FL.B
9039
H
9038
TP68
100
9455
TP65
TP54
+141
7504/7506
5503
3505
2504 2505
2523
6527
2524
6526
A03
DAF
A02
5520
A01
H. DEFL.
*2520
PANORAMA (16:9)
0°C
7140
2110
2101/2102
7100
+24 +32
AQUA
EHT INFO
+200
L13
FIL.
+13
FIL.
+5
6541
PROT
-15/-8
CS100
L03
S03
SC100 PIP/TDA4680
* NOT FOR PANORAMA
CL 46532018/016.XREF 160294

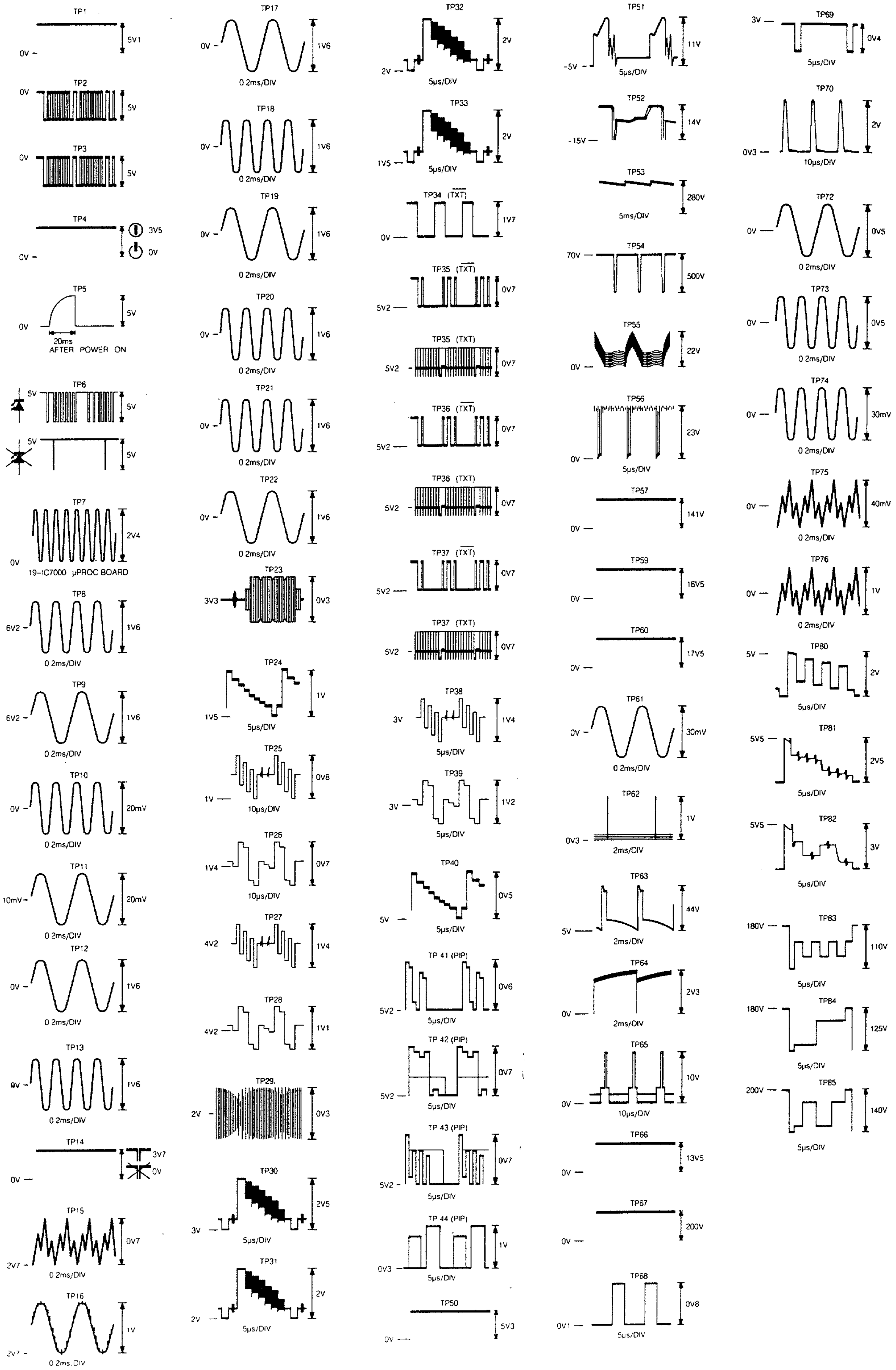
Small signal panel / Klein-signal Platte / Platine à petites signeaux


FRONT FL1
TP2
5012
TP1
1
2
3
TP3
TP4
TP5
9
12
uP
uP-MODULE
TP6
7137
X2408
TP7
19
S30
EAROM
WRITE ENABLE
CONTROL
7680
TDA8425
TP8
AUDIO-CONTROL
TP9
2686
2684
TP11
3700
3722
TP10
3720
HEADPHONES AMPLIFIER
-15
7704
LM833
9741
SERVICE DEFAULT MODE
+15
SERVICE MODE
S23
7175
PCF8574
7258
HEF4094
TP20
TP21
9658
7622
HEF4052
7620
AUDIO-SOURCE-SELECT
HEF4052
AUDIO-RECORD-SOURCE-SELECT
9629
TP19
9670
7365
TDA4650
TP23
15
CHROMA-DELAY
7366
TDA4661
9316
+13
7600
TDA8417
TP15
8
7
STEREO DECODER
TP16
TP12
S42
1
6
TP13
9123
9623
TP18
TP22
9622
TP17
TP25
14
16
VIDEO
CHROMA-PROCESSING
TP26
S85
9335
+33
BLACK STRETCH CTI (TDA4568)
9093
7630
LF353N
AUDIO
2318
PAL SECAM TRANSC.
NICAM DECODER
BUFFER
TP14
EURO AV3 INTERFACE PANEL
1255
S17
TP24
7430
TDA4680
TP29
S43
1
TP37
TP35
TP34
TP36
2
3
4
6
7
8
10
11
12
13
TP31
TP33
9183
TP39
TP38
TP40
TP41
TP42
TP44
TP43
7219
TEA6414
9266
S20
S83
VIDEO CON.
S57
1
6
TP32
9273
11
SCAVEM
S21
TP30
PIP MODUL
TUNER
Y/C DETECTOR
LFR-BOX 100Hz
7395
RGB
YUV
S82
S16
S22
A
7635
LF353N
CL46532022/014.X001
160294

Large signal panel / Groß-signal Platte / Platine forts signeaux


LED DISPLAY
3.15T
FRONT FL1
1200
SK
SUPPLY
ATTENTION LIVE PARTS
TP11
7216
6210
3255
3250
9223
TP52
7250
TP51
6213
TP53
9234
5280
6212
L39
TP50
+5 ST.BY
5255
u SOPS TRANSF.
5230 SOPS TRANSFORMER
TP56
L40
1
-15
HORIZONTAL
6237
6232
7001
6233
2531
TP54
3505
TP57
+141
TP55
TP59
+15
+V START
9203
5534
TP60
9048
+28
TP36
TP40
TP44
2543
WARNING -11V -16V
5555 L.O.T.
TV
3513
TP66
TP61
5241
+5
7000
9
6517
6280
TV
3607
TP67
1
TV
3558
+5
SOUND OUTPUT
VERTICAL
3410
TP69
TP74
TV
TV
7551
TP75
3431
9468
7011
TP76
9038
TP70
3602
9
6
3003
7450
TP62
3467
TP65
3234
3406
TP68
+13
3002
TP63
3438
TV
TP72
TP64
TP73
9056
9035
36532084/012.X001
130593

Oscillograms / Oscillogrammes



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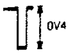
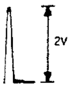
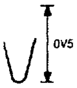
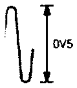
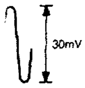
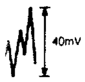

0V4

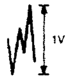

2V

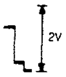

0V5

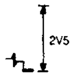

0V5

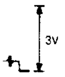

30mV

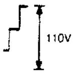

40mV

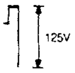

1V

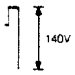

2V


2V5

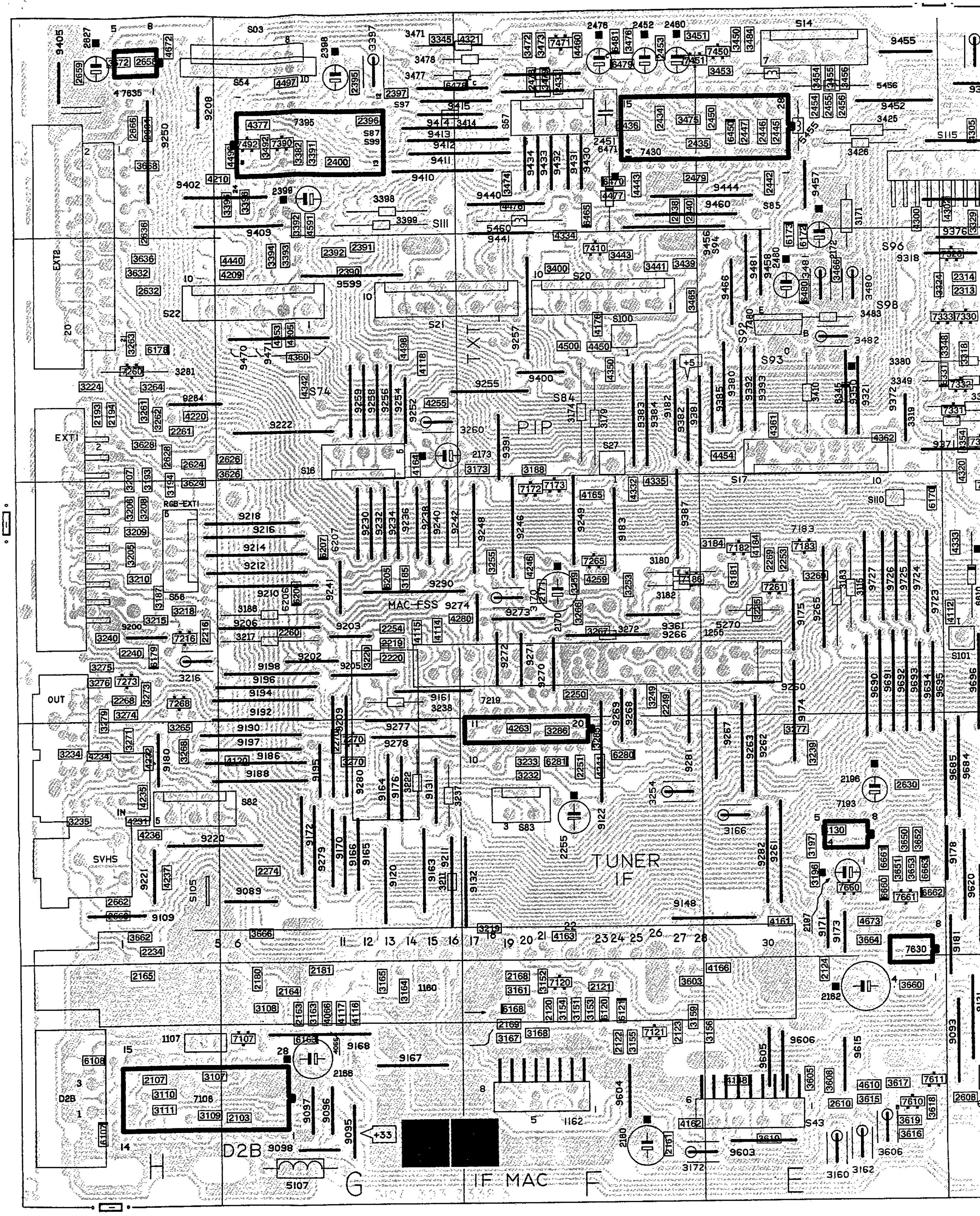

3V


110V


125V

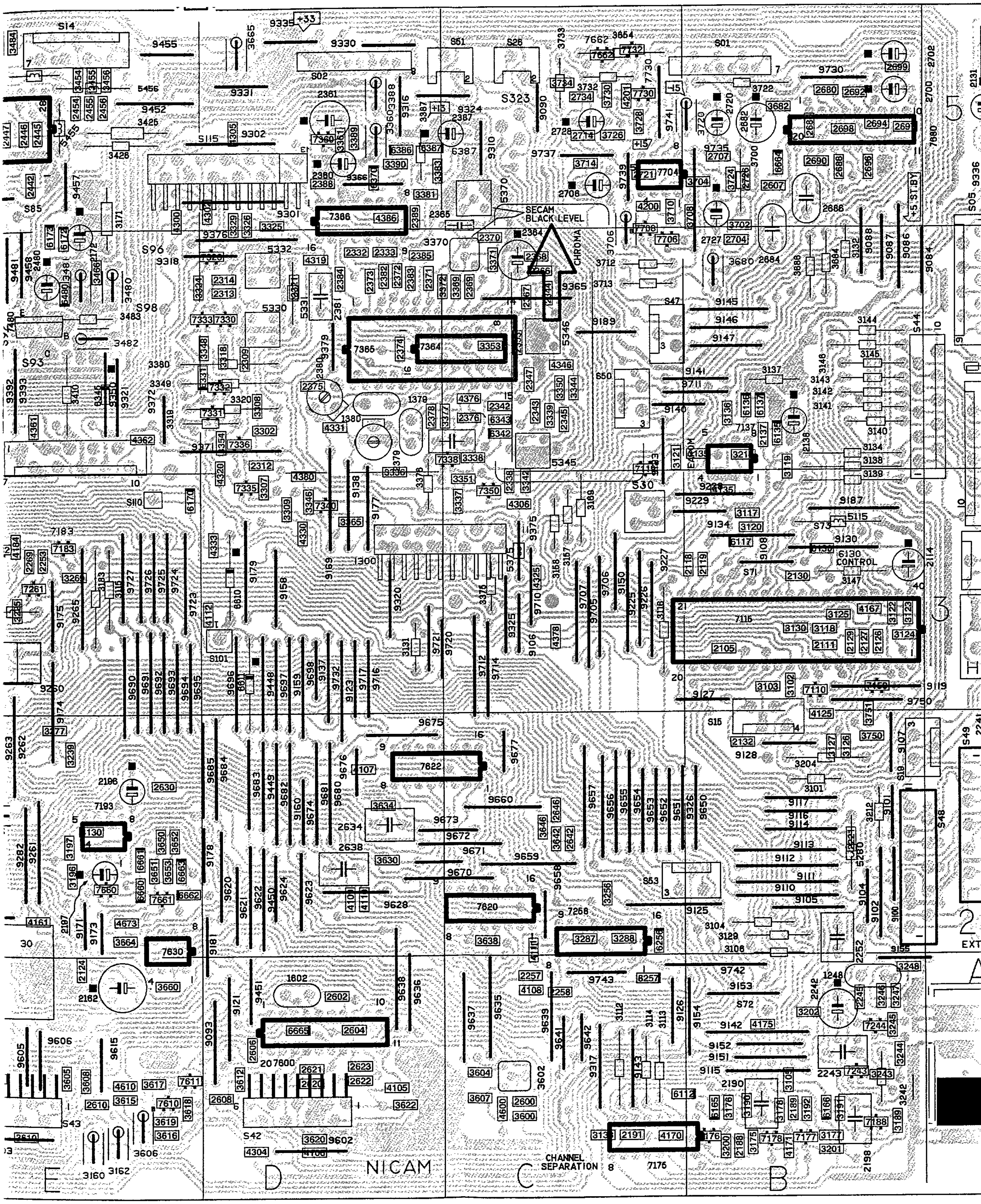

140V

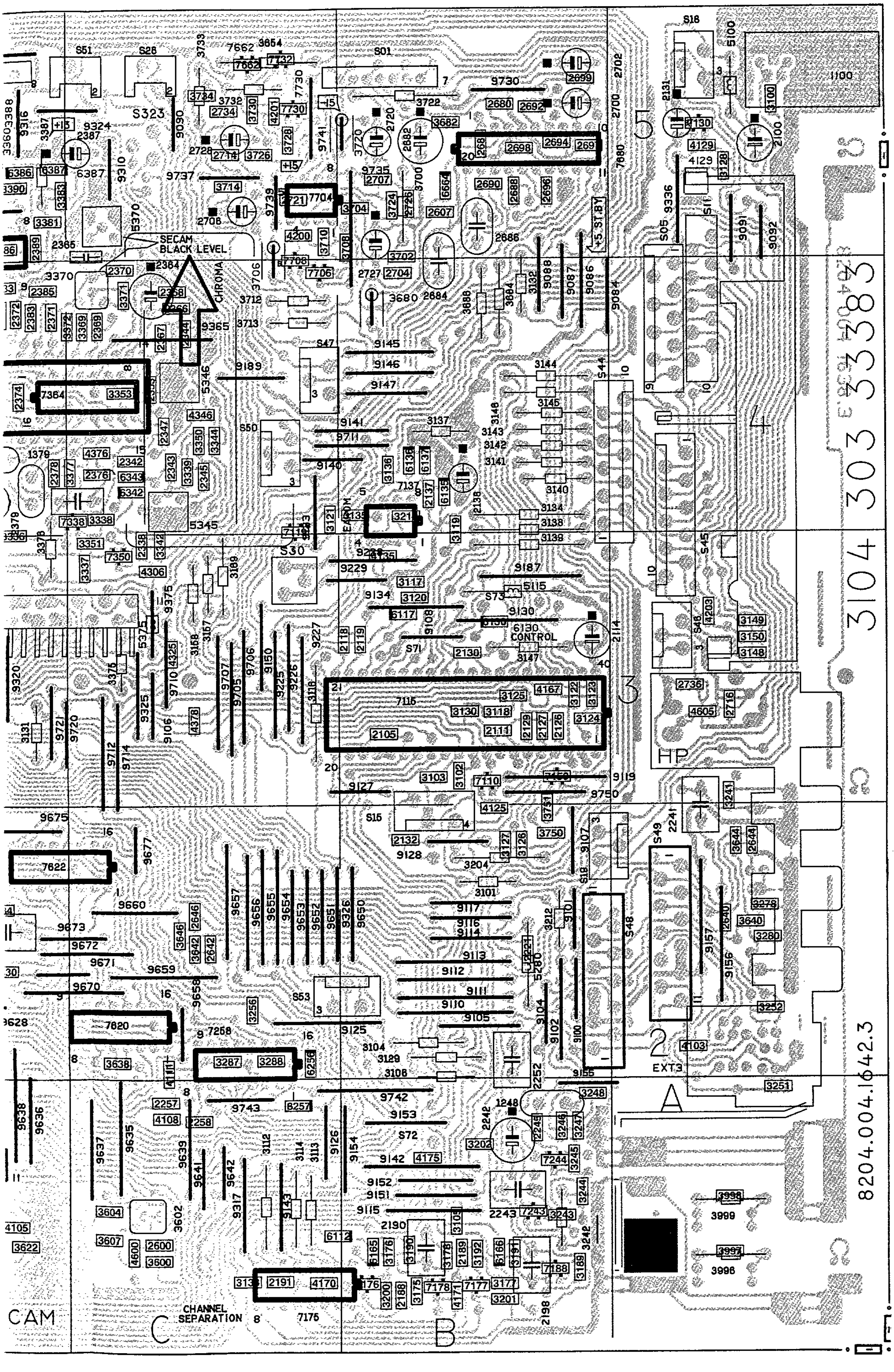
Small signal panel / Klein-signal Platte / Platine à petites signeaux


EXT2
EXT1
RGB-EXT1
OUT
IN
SVHS
D2B
TXT
PIP
MAC-FSS
TUNER
IF
IF MAC
+33
+5
S03
S14
S115
S96
S98
S93
S92
S97
S87
S99
S54
S22
S21
S20
S100
S17
S16
S74
S84
S27
S56
S58
S82
S83
S85
S94
S101
S105
S110
S111
S43
7395
7430
7219
7108
7630
H
G
F
E

PCS 73 729

igneaux

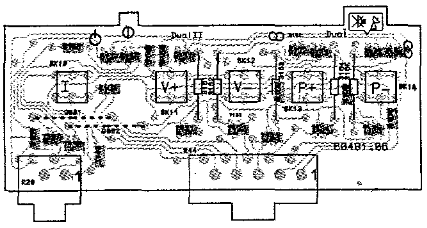

SECAM
BLACK LEVEL
CHROMA
EAROM
6130
CONTROL
+5 ST.BY
NICAM
CHANNEL
SEPARATION
E
D
C
B
EXT



EXT1	H3	2332	D4	3100
EXT2	H4	2333	D4	3101
EXT3	A3	2338	C3	3102
D2B	H1	2342	C4	3103
SVHS	H2	2343	C4	3104
S01	C5	2344	C4	3105
S02	D5	2345	C4	3106
S03	H5	2347	C4	3107
S05	A5	2353	C4	3108
S11	A5	2360	D5	3109
S14	E5	2361	D5	3110
S15	B3	2364	C4	3111
S16	G4	2365	C5	3112
S17	E4	2366	C4	3113
S18	A5	2367	C4	3114
S19	B2	2368	C4	3115
S20	F4	2369	C4	3116
S21	F4	2370	C5	3117
S22	G4	2371	D4	3118
S26	C5	2372	D4	3119
S27	F4	2373	D4	3120
S42	D1	2374	D4	3121
S43	F1	2375	D4	3122
S44	B4	2376	C4	3123
S45	A4	2377	D4	3124
S46	A3	2378	D4	3125
S47	C4	2379	D4	3126
S48	B2	2380	D4	3127
S49	A2	2381	D4	3128
S50	C4	2382	D4	3129
S51	C5	2383	D4	3130
S53	B2	2384	D4	3131
S54	H5	2385	D4	3132
S56	H3	2387	D5	3133
S57	F5	2388	D5	3134
S82	H2	2389	D5	3135
S83	F2	2390	G4	3136
S100	F4	2391	G5	3137
S101	D3	2392	G4	3138
S105	H2	2395	G5	3139
S115	E5	2396	G5	3140
1100	A5	2397	G5	3141
1107	H1	2398	G5	3142
1160	E2	2399	G5	3143
1162	F1	2400	G5	3144
1248	B1	2433	F5	3145
1300	D3	2434	F5	3146
1379	D4	2435	F5	3147
1380	D4	2436	F5	3148
1602	D1	2438	F5	3149
2100	A5	2440	F5	3150
2103	H1	2442	E5	3151
2105	B3	2445	E5	3152
2107	H1	2446	E5	3153
2111	B3	2447	E5	3154
2114	B3	2450	F5	3155
2118	C3	2451	F5	3156
2119	B3	2452	F5	3157
2120	F1	2453	F5	3158
2121	F1	2454	E5	3159
2122	F1	2455	E5	3160
2123	F1	2456	E5	3161
2124	E1	2460	F5	3162
2126	B3	2476	F5	3163
2127	B3	2478	F5	3164
2129	B3	2479	F5	3165
2130	B3	2480	E4	3166
2131	A5	2600	C1	3167
2132	B2	2602	D1	3168
2137	B4	2604	D1	3169
2138	B4	2606	D1	3170
2160	F1	2607	B5	3171
2161	F1	2608	D1	3172
2162	E1	2610	E1	3173
2163	G1	2620	D1	3174
2164	G1	2621	D1	3175
2165	H1	2622	D1	3176
2166	G1	2623	D1	3177
2168	F1	2624	H4	3178
2169	F1	2626	H4	3179
2170	F3	2627	H5	3180
2171	F3	2628	H4	3181
2172	E5	2630	E2	3182
2173	G4	2632	H4	3183
2180	G1	2634	D2	3184
2181	G1	2636	H5	3185
2188	B1	2638	D2	3186
2189	B1	2640	A2	3187
2190	B1	2642	C2	3188
2191	C1	2644	A2	3189
2193	H4	2646	C2	3190
2194	H4	2658	H5	3191
2196	E2	2659	H5	3192
2197	E2	2660	H2	3193
2198	B1	2662	H2	3194
2216	H3	2664	H5	3196
2219	G3	2666	H5	3197
2220	G3	2680	B5	3200
2221	B2	2681	B5	3201
2234	H2	2682	B5	3202
2240	H3	2684	B5	3204
2241	A3	2686	B5	3205
2242	B1	2688	B5	3206
2243	B1	2690	B5	3207
2245	B1	2692	B5	3208
2249	F3	2694	B5	3209
2250	F3	2696	B5	3210
2251	F2	2697	B5	3211
2252	B2	2698	B5	3212
2253	E3	2699	B5	3213
2254	G3	2700	B5	3215
2255	F2	2702	B5	3216
2257	C1	2704	B4	3217
2258	C1	2706	C5	3218
2260	G3	2707	B5	3219
2261	H4	2714	C5	322
2268	H3	2716	A3	322
2269	E3	2720	B5	322
2270	G2	2721	C5	322
2274	G2	2726	B5	323
2309	D4	2727	B5	323
2312	D4	2728	C5	323
2313	D4	2734	C5	323
2314	D4	2736	A3	323

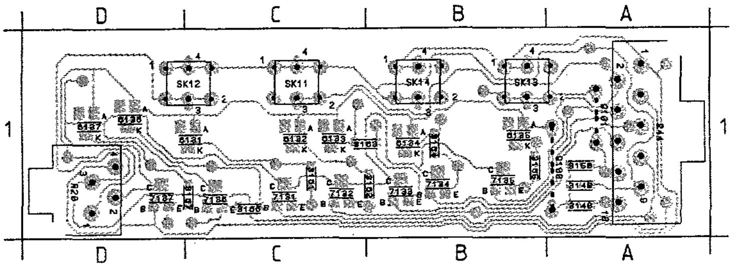
3100	A5	3238	G3	3480	E4	4259	F3	7172	F3	9159	D3	9383	F4
3101	B2	3239	E2	3481	E4	4263	F2	7173	F4	9160	D2	9384	F4
3102	B3	3240	H3	3482	E4	4280	G3	7175	B1	9161	G3	9385	F4
3103	B3	3241	A3	3483	E4	4300	E5	7176	B1	9163	G2	9387	F3
3104	B2	3242	B1	3484	E5	4302	E5	7177	B1	9164	G2	9391	F4
3105	B1	3243	B1	3492	G5	4304	D1	7178	B1	9165	G2	9392	E4
3106	B2	3244	B1	3600	C1	4305	D5	7182	E3	9166	G2	9393	E4
3107	H1	3245	B1	3602	C1	4306	C3	7183	E3	9167	G1	9400	F4
3108	G1	3246	B1	3603	F1	4319	D4	7186	F3	9168	G1	9402	H5
3109	H1	3247	B1	3604	C1	4320	D4	7188	B1	9169	D3	9403	F5
3110	H1	3248	B1	3605	E1	4321	G5	7193	E2	9170	G2	9404	F5
3111	H1	3249	F3	3606	E1	4325	C3	7216	H3	9171	E2	9405	H5
3112	C1	3251	A1	3607	C1	4330	D3	7219	F2	9172	G2	9409	H5
3113	C1	3252	A2	3608	E1	4331	D4	7243	B1	9173	E2	9410	G5
3114	C1	3253	F3	3610	E1	4332	F3	7244	B1	9174	E3	9411	G5
3115	E3	3254	F2	3612	D1	4333	E3	7258	C1	9175	E3	9412	G5
3116	C3	3255	F3	3615	E1	4334	F5	7260	H4	9176	G2	9413	G5
3117	B3	3256	C2	3616	E1	4335	F4	7261	E3	9177	D3	9414	G5
3118	B3	3257	C1	3617	E1	4342	G4	7265	F3	9178	E2	9415	G5
3119	B4	3259	F3	3618	E1	4346	C4	7268	H3	9179	D3	9416	G5
3120	B3	3260	G4	3619	E1	4350	F4	7270	G2	9180	H2	9430	F5
3121	C4	3261	H4	3620	D1	4360	G4	7273	H3	9181	E2	9431	F5
3122	B3	3262	H4	3622	D1	4361	E4	7326	E4	9182	F4	9432	F5
3123	B3	3263	H4	3624	H4	4362	E4	7330	D4	9183	F3	9433	F5
3124	B3	3264	H4	3626	H4	4376	C4	7331	E4	9186	G2	9434	F5
3125	B3	3265	H3	3628	H4	4377	G5	7332	D4	9187	B3	9440	F5
3126	B2	3266	F3	3630	D2	4378	C3	7333	E4	9188	G2	9441	F5
3127	B2	3267	F3	3632	H4	4380	D4	7335	D3	9189	C4	9444	F5
3128	A5	3268	H2	3634	D2	4386	D5	7336	D4	9190	G2	9448	D3
3129	B2	3269	E3	3636	H4	4440	H4	7338	D4	9192	G3	9449	D2
3130	B3	3270	G2	3638	C2	4443	F5	7340	D3	9194	G3	9450	D2
3131	D3	3271	H2	3640	A2	4450	F4	7350	C3	9195	G2	9451	D1
3132	B4	3272	F3	3642	C2	4453	G4	7360	D5	9196	G3	9452	E5
3133	C1	3273	H3	3644	A2	4454	E4	7364	D4	9197	G2	9455	E5
3134	B4	3274	H3	3646	C2	4460	F5	7365	D4	9198	G3	9456	F5
3135	B4	3275	H3	3650	E2	4476	F5	7366	D5	9200	H3	9457	E5
3136	B4	3276	H3	3651	E2	4477	F5	7390	G5	9202	G3	9458	E4
3137	B4	3277	E2	3652	E2	4496	H5	7395	G5	9203	G3	9460	F5
3138	B4	3278	A2	3653	E2	4497	G5	7410	F4	9205	G3	9466	E4
3139	B4	3279	H3	3654	C5	4498	G4	7430	E5	9206	G3	9470	G4
3140	B4	3280	A2	3660	E1	4500	F4	7450	E5	9208	H5	9471	G4
3141	B4	3281	H4	3662	H2	4591	G5	7451	F5	9209	G2	9481	E4
3142	B4	3285	F2	3664	E2	4600	C1	7471	F5	9210	G3	9599	G4
3143	B4	3286	F2	3665	D5	4605	A3	7480	E4	9211	G2	9602	D1
3144	B4	3287	C2	3666	G2	4610	E1	7492	G5	9212	G3	9603	E1
3145	B4	3288	C2	3668	H5	4672	H5	7600	D1	9214	G3	9604	F1
3146	B4	3302	D4	3672	H5	4673	E2	7610	E1	9216	G3	9605	E1
3147	B3	3307	D3	3680	B4	5100	A5	7611	E1	9218	G3	9606	E1
3148	A3	3308	D4	3682	B5	5107	G1	7620	C2	9220	H2	9615	E1
3149	A3	3309	D3	3684	B4	5115	B3	7622	C2	9221	H2	9620	D2
3150	A3	3318	D4	3686	B4	5270	E3	7630	E1	9222	G4	9621	D2
3151	F1	3319	E4	3700	B5	5280	B2	7635	H5	9225	C3	9622	D2
3152	F1	3320	D4	3702	B5	5303	F5	7660	E2	9226	C3	9623	D2
3153	F1	3321	D4	3704	B5	5304	F5	7661	E2	9227	C3	9624	D2
3154	F1	3324	E4	3706	C5	5330	D4	7662	C5	9228	B3	9628	D2
3155	F1	3325	D5	3708	C5	5331	D4	7680	B5	9229	B3	9635	C1
3156	F1	3326	D5	3710	C5	5332	D4	7704	C5	9230	G3	9636	D1
3157	C3	3329	D5	3712	C4	5345	C4	7706	C5	9232	G3	9637	C1
3158	C3	3336	D4	3713	C4	5346	C4	7708	C5	9234	G3	9638	D1
3159	F1	3337	C3	3714	C5	5370	C5	7730	C5	9236	G3	9639	C1
3160	E1	3338	C4	3720	C5	5375	C3	7732	C5	9238	G3	9641	C1
3161	F1	3339	C4	3722	B5	5454	E5	9084	B4	9240	G3	9642	C1
3162	E1	3342	C3	3724	B5	5455	E5	9086	B4	9241	G3	9650	B2
3163	G1	3344	C4	3726	C5	5456	E5	9087	B4	9242	G3	9651	C2
3164	G1	3345	G5	3728	C5	5460	F5	9088	B5	9246	F3	9652	C2
3165	G1	3346	D3	3730	C5	6107	H1	9089	G2	9248	G3	9653	C2
3166	E2	3348	E4	3732	C5	6108	H1	9090	C5	9249	F3	9654	C2
3167	F1	3349	D4	3733	C5	6112	C1	9091	A5	9250	H5	9655	C2
3168	F1	3350	C4	3734	C5	6117	B3	9092	A5	9252	G4	9656	C2
3169	C3	3351	C4	3750	B2	6120	F1	9093	E1	9254	G4	9657	C2
3170	F3	3353	C4	3751	B3	6121	F1	9095	G1	9255	F4	9658	C2
3171	E5	3354	D4	3996	A1	6130	B3	9096	G1	9256	G4	9659	C2
3172	F1	3360	D5	3997	A1	6135	B4	9097	G1	9257	F4	9660	C2
3173	G4	3361	D5	3998	A1	6136	B4	9098	G1	9258	G4	9670	D2
3174	F4	3365	D3	3999	A1	6137	B4	9100	B2	9259	G4	9671	D2
3175	B1	3369	C4	4066	G1	6163	G1	9101	B2	9260	E3	9672	C2
3176	B1	3370	D4	4103	A2	6165	B1	9102	B2	9261	E2	9673	D2
3177	B1	3371	C4	4105	D1	6166	B1	9104	B2	9262	E2	9674	D2
3178	B1	3372	D4	4106	D1	6168	F1	9105	B2	9263	E2	9675	D2
3179	F4	3375	C3	4107	D2	6170	E3	9106	C3	9264	H4	9676	D2
3180	F3	3376	D3	4108	C1	6172	E5	9107	B2	9265	E3	9677	C2
3181	E3	3377	D4	4109	D2	6173	E5	9108	B3	9266	F3	9680	D2
3182	F3	3380	D4	4110	D2	6178	H4	9109	H2	9267	F2	9681	D2
3183	E3	3381	D5	4111	C2	6179	H3	9110	B2	9268	F3	9682	D2
3184	F3	3382	G5	4112	E3	6205	G3	9111	B2	9269	F3	9683	D2
3185	G3	3383	D5	4114	G3	6206	G3	9112	B2	9270	F3	9684	E2
3186	G3	3387	D5	4115	G3	6207	G3	9113	B2	9271	F3	9685	E2
3187	H3	3388	D5	4116	G1	6256	C2	9114	B2	9272	F3	9690	E3
3188	F4	3389	D5	4117	G1	6257	C1	9115	B1	9273	F3	9691	E3
3189	B1	3390	D5	4118	G4	6280	F2	9116	B2	9274	G3	9692	E3
3190	B1	3391	G5	4120	H2	6281	F2	9117	B2	9277	G3	9693	E3
3191	B1	3392	G5	4125	B3	6331	E4	9119	B3	9278	G2	9694	E3
3192	B1	3393	G4	4129	A5	6342	C4	9120	G2	9279	G2	9695	E3
3193	H4	3394	G4	4130	E2	6343	C4	9121	D1	9280	G2	9696	D3
3194	H4	3395	H5	4135	B3	6345	E4	9122	F2	9281	F3	9697	D3
3196	E2	3396	G5	4148	E1	6370	D5	9123	D3	9282	E2	9698	D3
3197	E2	3397	G5	4161	E2	6386	D5	9125	C2	9290	G3	9705	C3
3200	B1	3398	G5	4162	F1	6387	D5	9126	C1	9301	D5	9706	C3
3201	B1	3399	G5	4163	F2	6450	E5	9127	B3	9302	D5	9707	C3
3202	B1	3400	F4	4164	G4	6465	F5	9128	B2	9310	C5	9710	C3
3204	B2	3410	E4	4165	F3	6470	F5	9130	B3	9316	D5	9711	C4
3205	H3	3414	G5	4166	F1	6471	F5	9131	G2	9317	C1	9712	C3
3206	H3	3425	E5	4167	B3	6478	G5	9132	G2	9318	E4	9714	C3
3207	H4	3426	E5	4170	C1	6479	F5	9133	C4	9320	D3	9716	D3
3208	H3	3439	F4	4171	B1	6480	E4	9134	B3	9321	E4	9717	D3
3209	H3	3441	F4	4175	B1	6481	F5	9137	D3	9324	D5	9720	D3
3210	H3	3443	F4	4176	F4	6610	D3	9138	D3	9325	C3	9721	D3
3211	G2	3450	E5	4184	E3	6611	D3	9140	B4	9326	C2	9723	E3
3212	B2	3451	F5	4200	C5	6660	E2	9141	B4	9330	D5	9724	E3
3213	B4	3453	E5	4201	C5	6661	E2	9142	B1	9331	D5	9725	E3
3215	H3	3454	E5	4203	A3	6662	E2	9143	C1	9335	D5	9726	E3
3216	H3	3455	E5	4205	G4	6663	E2	9145	B4	9336	A5	9727	E3
3217	G3	3456	E5	4209	H4	6664	B5	9146	B4	9350	E4	9730	B5
3218	H3	3465	F4	4210	H5	6665	D1	9147	B4	9361	F3	9732	D3
3219	F2	3466	E4	4220	H4	7107	H1	9148	F2	9365	C4	9735	B5
3220	G3	3471	G5	4231	H2	7108	G1	9150	C3	9366	D5	9737	C5
3222	G2	3472	F5	4232	H2	7110	B3	9151	B1	9371	D4	9739	C5
3224	H4	3473	F5	4234	H2	7115	B3	9152	B1	9372	E4	9741	C5
3225	E3	3474	F5	4235	H2	7119	C4	9153	B1	9375	C3	9742	B1
3232	F2	3475	F5	4236	H2	7120	F1	9154	C1	9376	D5	9743	C1
3233	F2	3476	F5	4237	H2	7121	F1	9155	B1	9379	D4	9750	B3
3234	H2	3477	G5	4241	F2	7130	A5	9156	A2	9380	E4		
3235	H2	3478	G5	4246	F3	7137	B4	9157	A2	9381	F4		
3237	G2	3479	F5	4255	G4	7150	B3	9158	D3	9382	F4		

FL2 LED/Control

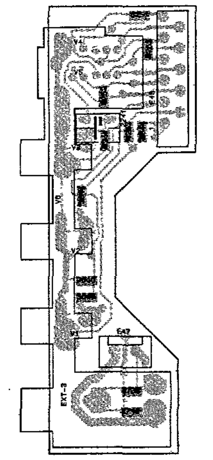


FL4 LED/Control

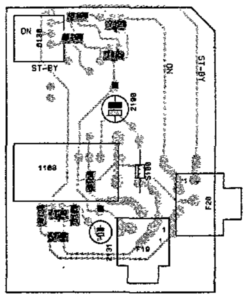
3148 A 1	3163 C 1	6131 C 1	6136 D 1	7134 B 1	9101 A 1	SK13 B 1
3149 A 1	3164 B 1	6132 C 1	6137 D 1	7135 B 1	R20 D 1	SK14 B 1
3158 A 1	3165 B 1	6133 C 1	7131 C 1	7136 C 1	R44 A 1	
3161 C 1	3166 C 1	6134 B 1	7132 C 1	7137 D 1	SK11 C 1	
3162 B 1	3167 C 1	6135 B 1	7133 B 1	9100 A 1	SK12 D 1	



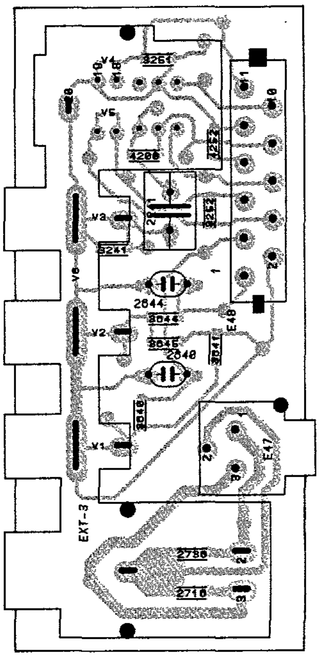
FL2 Front



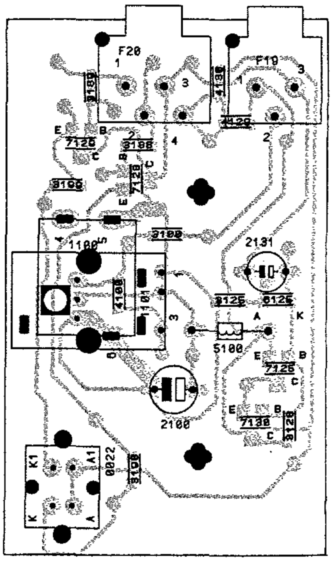
FL2 IR



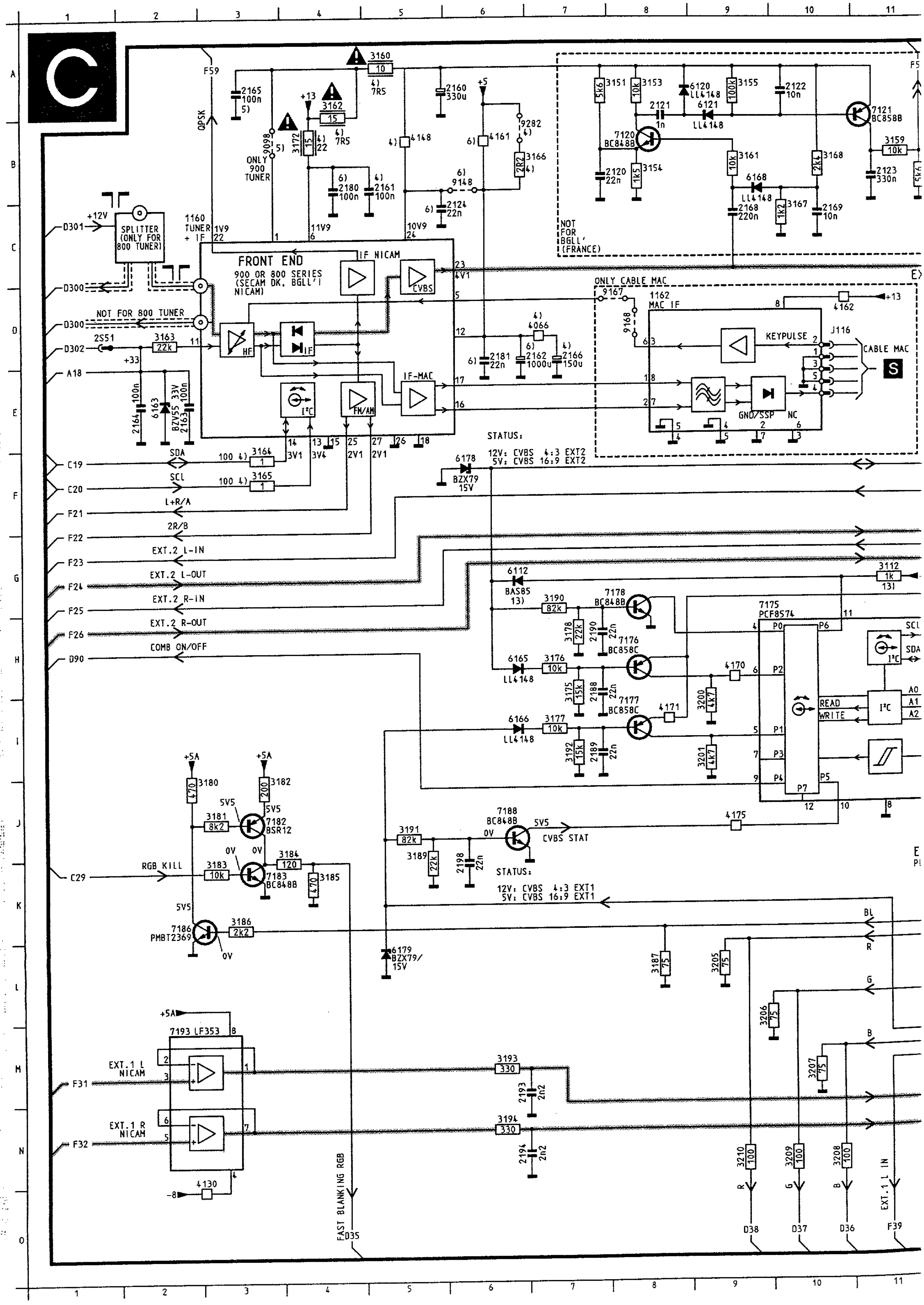
FL4 Front



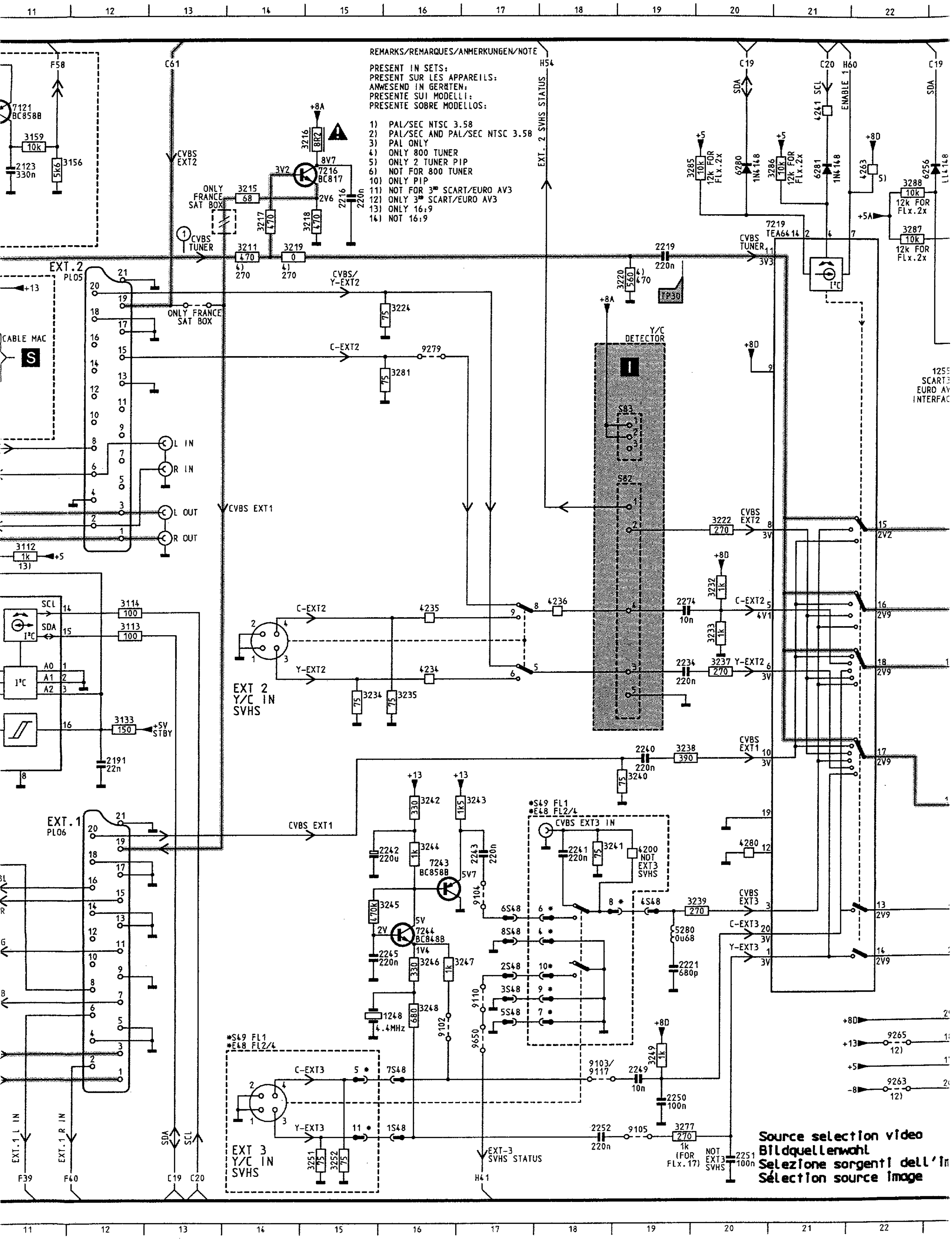
FL4 IR LED panel



Source selection / Quellenwahl /


C
FRONT END
900 OR 800 SERIES
(SECAM DK, BGLL'I
NICAM)
IF NICAM
CVBS
HF
IF
IF-MAC
I²C
FM/AM
1160
TUNER
+ IF
SPLITTER
(ONLY FOR
800 TUNER)
NOT FOR 800 TUNER
ONLY
900
TUNER
QPSK
F59
3160
10
7R5
3162
15
3172
15
22
2165
100n
2160
330u
2180
100n
2161
100n
2124
22n
4148
4161
9098
9148
9282
3166
2R2
4066
2181
22n
2162
1000u
2166
150u
NOT
FOR
BGLL'
(FRANCE)
3151
5k6
3153
10k
6120
LL4148
3155
100k
2122
10n
2121
1n
6121
LL4148
7121
BC858B
7120
BC848B
3159
10k
3161
10k
3168
2k4
2120
22n
3154
1k5
6168
LL4148
2168
220n
3167
1k2
2169
10n
2123
330n
ONLY CABLE MAC
9167
9168
1162
MAC IF
4162
+13
J116
KEYPULSE
CABLE MAC
S
GND/SSP
NC
D301
D300
D302
A18
2S51
3163
22k
+33
2164
100n
6163
BZV55 33V
2163
100n
C19
SDA
3164
1
C20
SCL
3165
1
F21
L+R/A
F22
2R/B
F23
EXT.2 L-IN
F24
EXT.2 L-OUT
F25
EXT.2 R-IN
F26
EXT.2 R-OUT
H90
COMB ON/OFF
STATUS:
12V: CVBS 4:3 EXT2
5V: CVBS 16:9 EXT2
6178
BZX79
15V
6112
BAS85
3112
1k
3190
82k
7178
BC848B
3178
22k
2190
22n
7176
BC858C
6165
LL4148
3176
10k
3175
15k
2188
22n
7177
BC858C
6166
LL4148
3177
10k
3192
15k
2189
22n
4170
4171
3200
4k7
3201
4k7
7175
PCF8574
P0
P6
P2
P1
P3
P4
P7
P5
READ
WRITE
I²C
A0
A1
A2
SCL
SDA
4175
+5A
3180
470
3182
200
3181
8k2
7182
BSR12
5V5
3183
10k
7183
BC848B
3184
120
3185
470
C29
RGB KILL
7186
PMBT2369
3186
2k2
3191
82k
3189
22k
2198
22n
7188
BC848B
CVBS STAT
STATUS:
12V: CVBS 4:3 EXT1
5V: CVBS 16:9 EXT1
6179
BZX79/
15V
3187
75
3205
75
3206
75
3207
75
BL
R
G
B
+5A
7193 LF353
EXT.1 L
NICAM
F31
EXT.1 R
NICAM
F32
4130
-8
3193
330
2193
2n2
3194
330
2194
2n2
FAST BLANKING RGB
D35
3210
100
3209
100
3208
100
D38
D37
D36
EXT.1 L IN
F39

Sélection de source



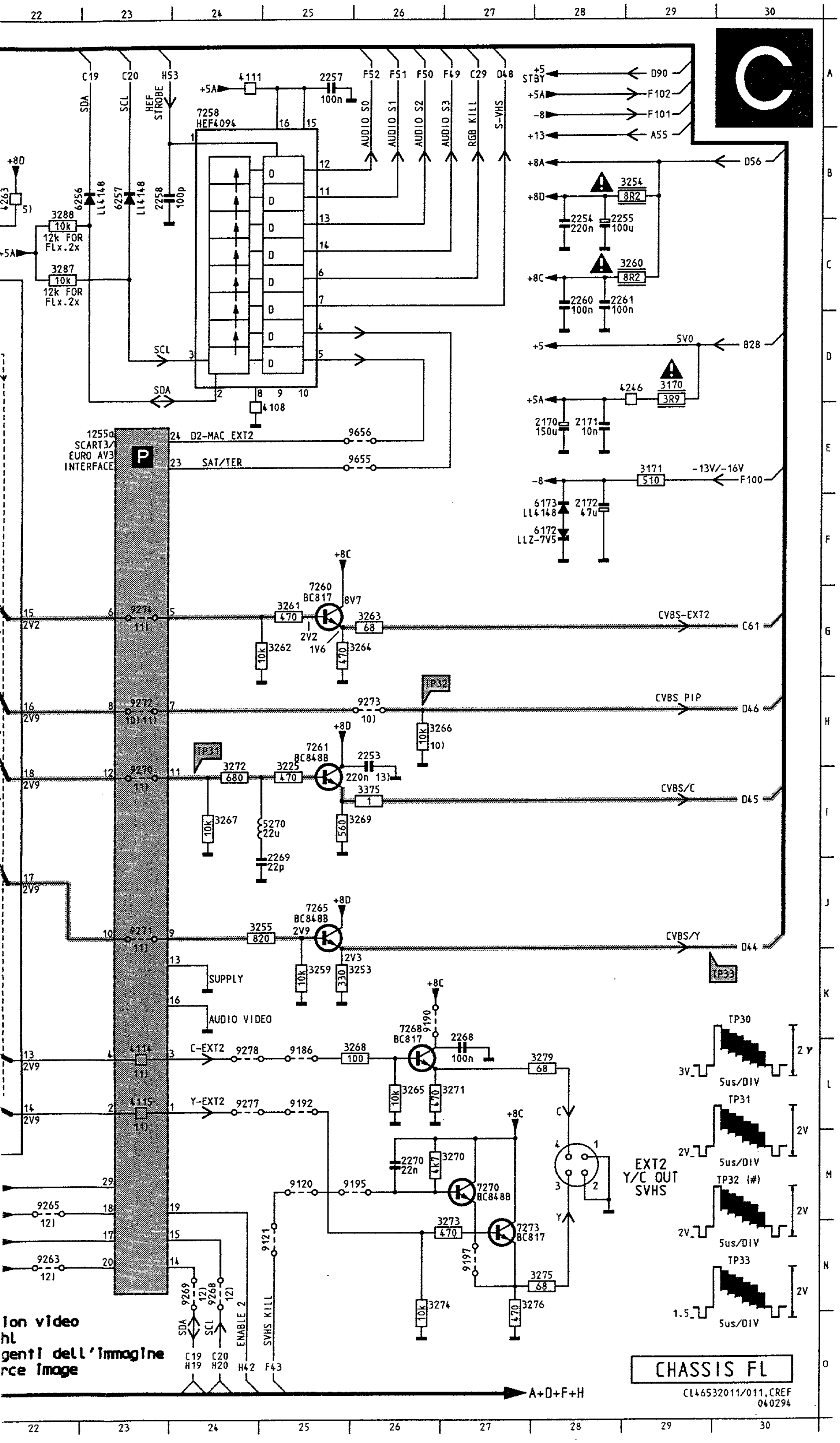
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL/SEC NTSC 3.58
2) PAL/SEC AND PAL/SEC NTSC 3.58
3) PAL ONLY
4) ONLY 800 TUNER
5) ONLY 2 TUNER PIP
6) NOT FOR 800 TUNER
10) ONLY PIP
11) NOT FOR 3RD SCART/EURO AV3
12) ONLY 3RD SCART/EURO AV3
13) ONLY 16:9
14) NOT 16:9

Source selection video
Bildquellenwahl
Selezione sorgenti dell'in
Sélection source image

11
12
13
14
15
16
17
18
19
20
21
22
F58
C61
H54
C19
C20
H60
SDA
SCL
ENABLE 1
7121
BC858B
3159
10k
2123
330n
3156
5k6
CVBS EXT2
+8A
3216
8R2
8V7
3V2
7216
BC817
2V6
2216
220n
ONLY FRANCE SAT BOX
3215
68
3217
470
3218
470
EXT. 2 SVHS STATUS
CVBS TUNER
3211
470
3219
0
4) 270
2219
220n
3220
560
4) 470
TP30
EXT.2
PL05
+13
CABLE MAC
S
CVBS/ Y-EXT2
3224
75
C-EXT2
9279
3281
L IN
R IN
L OUT
R OUT
CVBS EXT1
3112
1k
+5
Y/C DETECTOR
I
S83
S82
+8D
3285
10k
12k FOR FLx.2x
6280
1N4148
3286
6281
4241
4263
5)
6256
3288
10k
3287
+5A
7219
TEA6414
I²C
1255
SCART3
EURO AV
INTERFACE
3222
270
CVBS EXT2
2V2
3232
1k
3233
2274
10n
4V1
2V9
3114
100
3113
100
SCL
SDA
A0
A1
A2
C-EXT2
Y-EXT2
4235
4234
4236
3234
3235
EXT 2 Y/C IN SVHS
2234
220n
3237
270
3133
150
+5V STBY
2191
22n
EXT.1
PL06
CVBS EXT1
2240
220n
3238
390
3240
+13
3242
330
3243
1k5
2242
220u
3244
1k
7243
BC858B
5V7
2243
220n
9104
7244
BC848B
3245
470k
5V
2V
1V4
2245
220n
3246
330
3247
1k
1248
4.4MHz
3248
680
9102
9110
9650
*S49 FL1
*E48 FL2/4
CVBS EXT3 IN
2241
220n
3241
75
4200 NOT EXT3 SVHS
6S48
8S48
2S48
3S48
5S48
4S48
3239
270
CVBS EXT3
C-EXT3
Y-EXT3
5280
0u68
2221
680p
4280
13
14
9103/ 9117
2249
10n
3249
1k
2250
100n
+8D
+13
+5
-8
9265
9263
12)
EXT 3 Y/C IN SVHS
7S48
1S48
3251
75
3252
75
2252
220n
9105
3277
270
1k (FOR FLx.17)
NOT EXT3 SVHS
2251
100n
EXT-3 SVHS STATUS
EXT.1 L IN
EXT.1 R IN
F39
F40
H41


22
23
24
25
26
27
28
29
30
C
C19
C20
H53
SDA
SCL
HEF STROBE
+5A
4111
2257
100n
7258
HEF4094
F52
F51
F50
F49
C29
D48
AUDIO S0
AUDIO S1
AUDIO S2
AUDIO S3
RGB KILL
S-VHS
+5 STBY
D90
+5A
F102
-8
F101
+13
A55
+8A
D56
3254
8R2
+8D
2254
220n
2255
100u
3260
8R2
+8C
2260
100n
2261
100n
+5
5V0
B28
+5A
4246
3170
3R9
2170
150u
2171
10n
3171
510
-13V/-16V
F100
-8
6173
LL4148
6172
LLZ-7V5
2172
47u
+8D
4263
3288
10k
12k FOR FLx.2x
3287
10k
12k FOR FLx.2x
6256
LL4148
6257
LL4148
2258
100p
SCL
SDA
4108
1255a
SCART3/
EURO AV3
INTERFACE
P
D2-MAC EXT2
9656
SAT/TER
9655
+8C
7260
BC817
3261
470
8V7
3263
68
2V2
1V6
3262
10k
3264
470
CVBS-EXT2
C61
9274
TP32
9272
9273
10)
CVBS PIP
D46
3266
10k
TP31
9270
3272
680
3225
470
7261
BC848B
2253
220n
3375
1
CVBS/C
D45
3267
10k
5270
22u
2269
22p
3269
560
9271
3255
820
7265
BC848B
2V9
2V3
CVBS/Y
D44
TP33
3259
10k
3253
330
SUPPLY
AUDIO VIDEO
4114
C-EXT2
9278
9186
3268
100
7268
BC817
9190
2268
100n
3279
68
3265
10k
3271
470
4115
Y-EXT2
9277
9192
+8C
2270
22n
3270
4k7
7270
BC848B
9120
9195
3273
470
7273
BC817
9197
3275
68
3274
10k
3276
470
9121
SVHS KILL
ENABLE 2
9265
9263
12)
9269
9268
SDA
SCL
C19
H19
C20
H20
H42
F43
A+D+F+H
EXT2
Y/C OUT
SVHS
TP30
3V
2V
5us/DIV
TP31
TP32 (#)
TP33
1.5
ion video
hl
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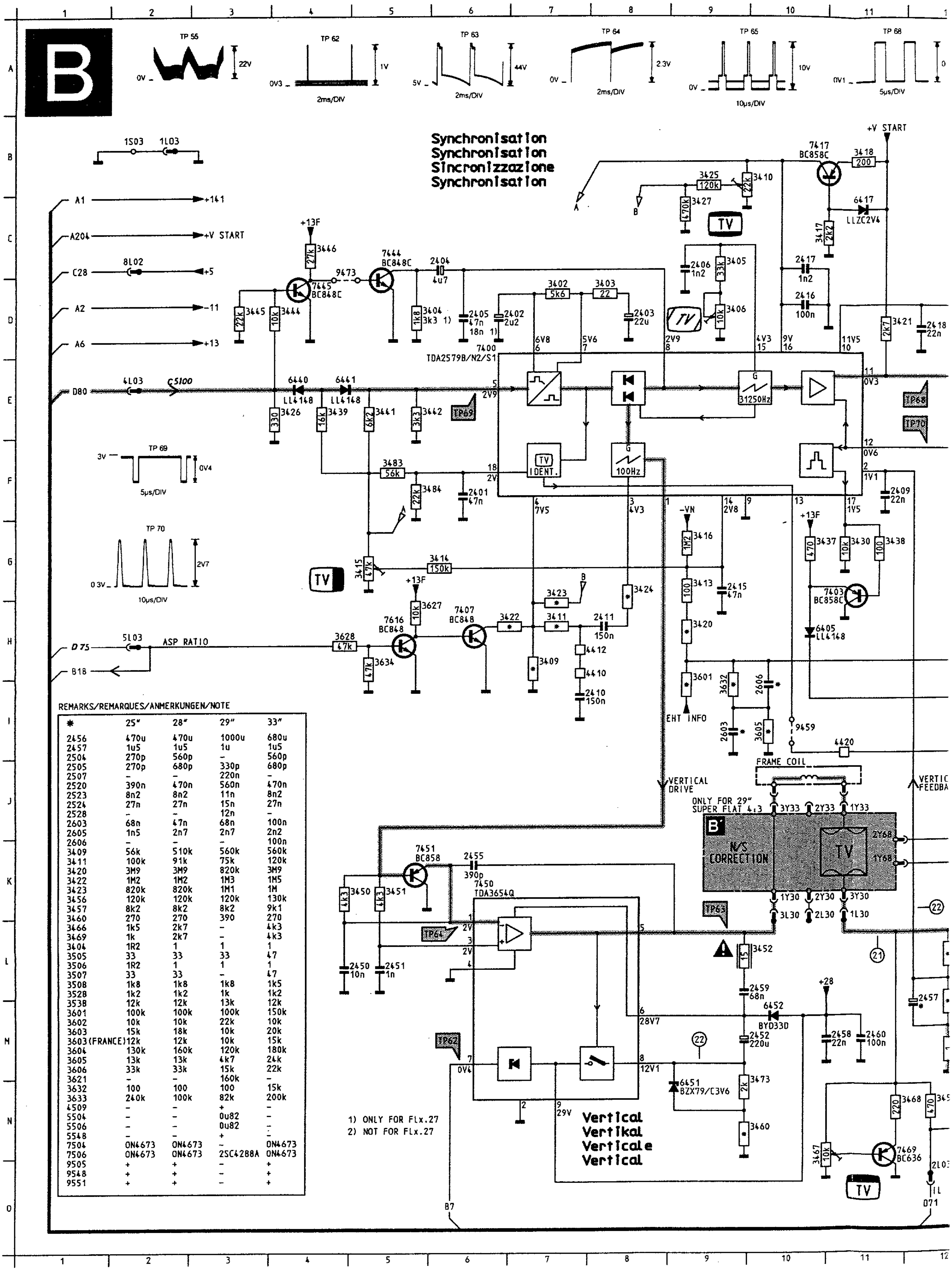
CHASSIS FL

CL46532011/011.CREF
040294

1160	C 2	3237	I20	9192	L25
1162	D 8	3238	J19	9195	M26
1248	M16	3239	L20	9197	N27
1255	E23	3240	J19	9263	N22
2120	B 7	3241	K18	9265	M22
2121	A 8	3242	J16	9268	N24
2122	A10	3243	J17	9269	N24
2123	B11	3244	K16	9270	I23
2124	C 6	3245	L16	9271	J23
2160	A 6	3246	L16	9272	H23
2161	B 5	3247	L16	9273	H26
2162	D 7	3248	M16	9274	G23
2163	E 2	3249	N19	9277	L24
2164	E 2	3251	O15	9278	L24
2165	A 3	3252	O15	9279	E16
2166	D 7	3253	K25	9282	B 6
2168	C 9	3254	B29	9650	M17
2169	C10	3255	J25	9655	E26
2170	E28	3259	K25	9656	E26
2171	E28	3260	C29		
2172	F28	3261	G25		
2180	B 4	3262	G25		
2181	D 6	3263	G26		
2188	I 7	3264	G25		
2189	I 7	3265	L26		
2190	H 7	3266	H26		
2191	J12	3267	I24		
2193	M 6	3268	L26		
2194	N 6	3269	I25		
2198	K 6	3270	M27		
2216	C15	3271	L27		
2219	C19	3272	I24		
2221	L19	3273	N27		
2234	I19	3274	N26		
2240	J19	3275	N28		
2241	K18	3276	N27		
2242	K15	3277	O19		
2243	K17	3279	L28		
2245	L15	3281	E16		
2249	N19	3285	B19		
2250	N19	3286	B21		
2251	O20	3287	C22		
2252	O18	3288	B22		
2253	H26	3375	I26		
2254	C28	4066	D 7		
2255	C28	4108	E25		
2257	A25	4111	A24		
2258	B23	4114	L23		
2260	C28	4115	L23		
2261	C28	4130	N 3		
2268	L27	4148	B 5		
2269	J25	4161	B 6		
2270	M26	4162	D10		
2274	H19	4170	H 9		
3112	G11	4171	I 8		
3113	H12	4175	J 9		
3114	H12	4200	K19		
3133	I12	4234	I16		
3151	A 7	4235	H16		
3153	A 8	4236	H18		
3154	B 8	4241	B21		
3155	A 9	4246	D29		
3156	B11	4263	B22		
3159	B11	4280	K20		
3160	A 5	5270	I25		
3161	B 9	5280	L19		
3162	A 4	6112	G 6		
3163	D 2	6120	A 9		
3164	F 3	6121	A 9		
3165	F 3	6163	E 2		
3166	B 7	6165	H 6		
3167	C10	6166	I 6		
3168	B10	6168	B 9		
3170	D29	6172	F28		
3171	E29	6173	F28		
3172	B 4	6178	F 6		
3175	I 7	6179	L 5		
3176	H 7	6256	B23		
3177	I 7	6257	B23		
3178	H 7	6280	B20		
3180	I 2	6281	B21		
3181	J 3	7120	B 8		
3182	I 3	7121	B11		
3183	K 3	7175	H 9		
3184	J 4	7176	H 8		
3185	K 4	7177	I 8		
3186	K 3	7178	G 8		
3187	L 8	7182	J 3		
3189	J 5	7183	K 3		
3190	G 7	7186	K 2		
3191	J 5	7188	J 6		
3192	I 7	7193	M 2		
3193	M 6	7216	B15		
3194	N 6	7219	C20		
3200	I 9	7243	K16		
3201	I 9	7244	L16		
3205	L 9	7258	A24		
3206	L 9	7260	G25		
3207	M10	7261	H25		
3208	N10	7265	J25		
3209	N10	7268	K26		
3210	N 9	7270	M27		
3211	C14	7273	N27		
3215	C14	9098	B 3		
3216	B15	9102	M16		
3217	C14	9103	N18		
3218	C15	9104	K17		
3219	C14	9105	O19		
3220	D19	9110	M17		
3222	G20	9120	M25		
3224	D16	9121	N25		
3225	I25	9148	B 6		
3232	H20	9167	D 8		
3233	H20	9168	D 8		
3234	I15	9186	L25		
3235	I16	9190	K26		

Synchronization / Synchronisierung / Synchronisation

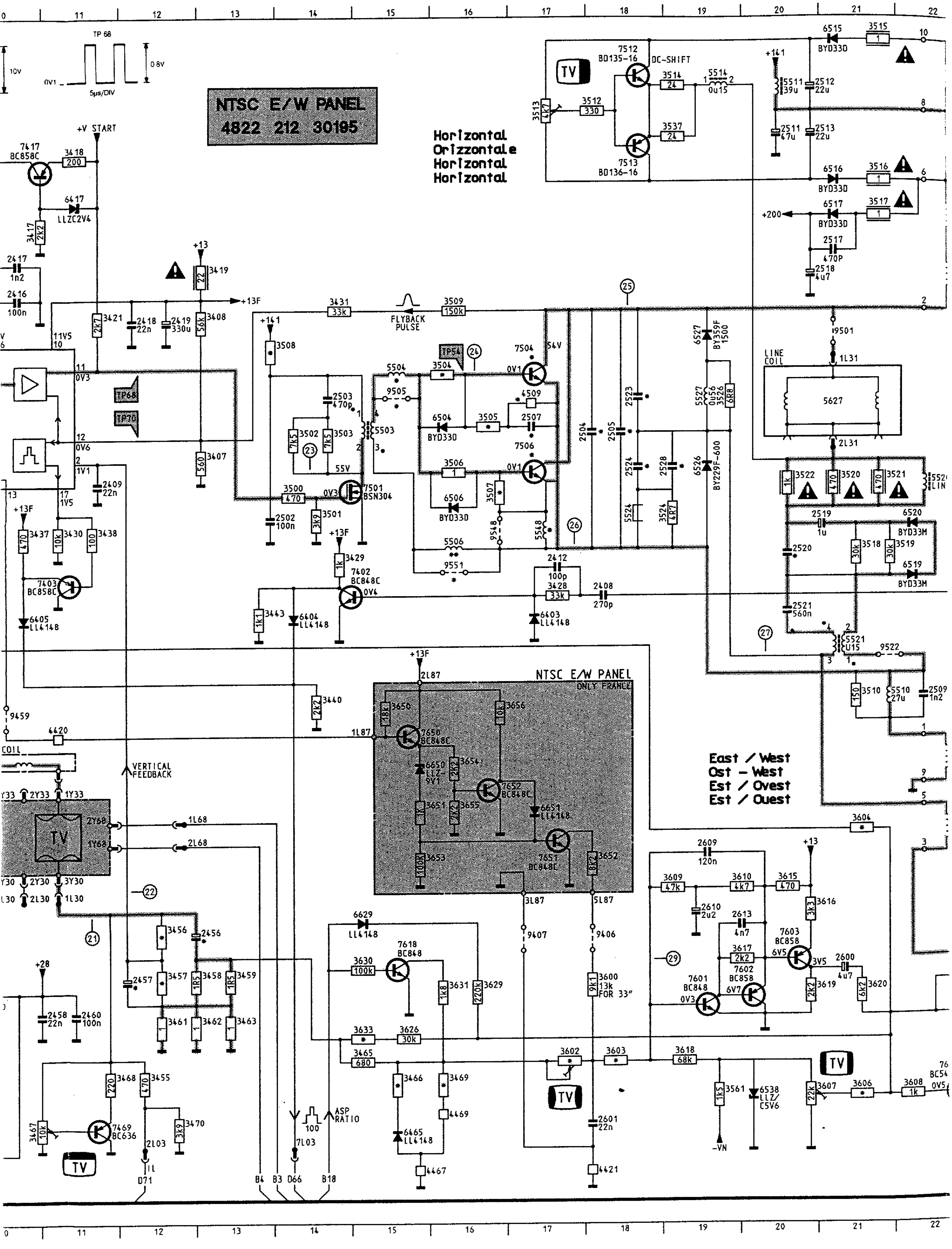

B
TP 55
22V
0V
TP 62
1V
0V3
2ms/DIV
TP 63
44V
5V
2ms/DIV
TP 64
2.3V
0V
2ms/DIV
TP 65
10V
0V
10µs/DIV
TP 68
0V1
5µs/DIV
1S03
1L03
Synchronisation
Synchronisation
Sincronizzazione
Synchronisation
A1
+141
A204
+V START
C28
8L02
+5
A2
-11
A6
+13
D80
4L03
C5100
+13F
3446
27k
7445
BC848C
9473
7444
BC848C
2404
4u7
3445
22k
3444
10k
3404
1k8
3k3 1)
2405
47n
18n 1)
2402
2u2
3402
5k6
3403
22
2403
22u
2406
1n2
3405
33k
3406
10k
3425
120k
3410
22k
3427
470k
TV
7417
BC858C
3418
200
+V START
6417
LLZC2V4
3417
2k2
2417
1n2
2416
100n
3421
2k7
2418
22n
6V8
5V6
2V9
4V3
9V
11V5
7400
TDA2579B/N2/S1
6440
LL4148
6441
LL4148
3426
330
3439
16k
3441
6k2
3442
3k3
TP69
2V9
31250Hz
100Hz
TV IDENT.
11
0V3
TP68
TP70
12
0V6
2
1V1
2409
22n
3483
56k
3484
22k
2401
47n
18
2V
7V5
4V3
-VN
2V8
13
17
1V5
TP 69
3V
0V4
5µs/DIV
TP 70
2V7
0 3V
10µs/DIV
3415
47k
3414
150k
TV
3416
1M2
2415
47n
+13F
3437
470
3430
10k
3438
100
7403
BC858C
6405
LL4148
3413
100
3420
3424
3423
3422
3411
2411
150n
4412
4410
2410
150n
3409
+13F
3627
10k
7616
BC848
7407
BC848
D 75
5L03
ASP RATIO
3628
47k
3634
47k
B18
3601
3632
2606
EHT INFO
2603
3605
9459
4420
FRAME COIL
VERTICAL DRIVE
VERTIC FEEDBA
ONLY FOR 29" SUPER FLAT 4:3
3Y33
2Y33
1Y33
B
N/S CORRECTION
TV
2Y68
1Y68
1Y30
2Y30
3Y30
3L30
2L30
1L30
TP63
22
21
3452
15
2459
68n
6452
BYD33D
+28
2458
22n
2460
100n
2457
7451
BC858
2455
390p
7450
TDA3654Q
3450
4k3
3451
4k3
TP64
2V
2V
2450
10n
2451
1n
28V7
2452
220u
TP62
0V4
12V1
6451
BZX79/C3V6
3473
2k
3468
220
470
3460
29V
Vertical
Vertikal
Verticale
Vertical
3467
10k
7469
BC636
TV
B7
D71

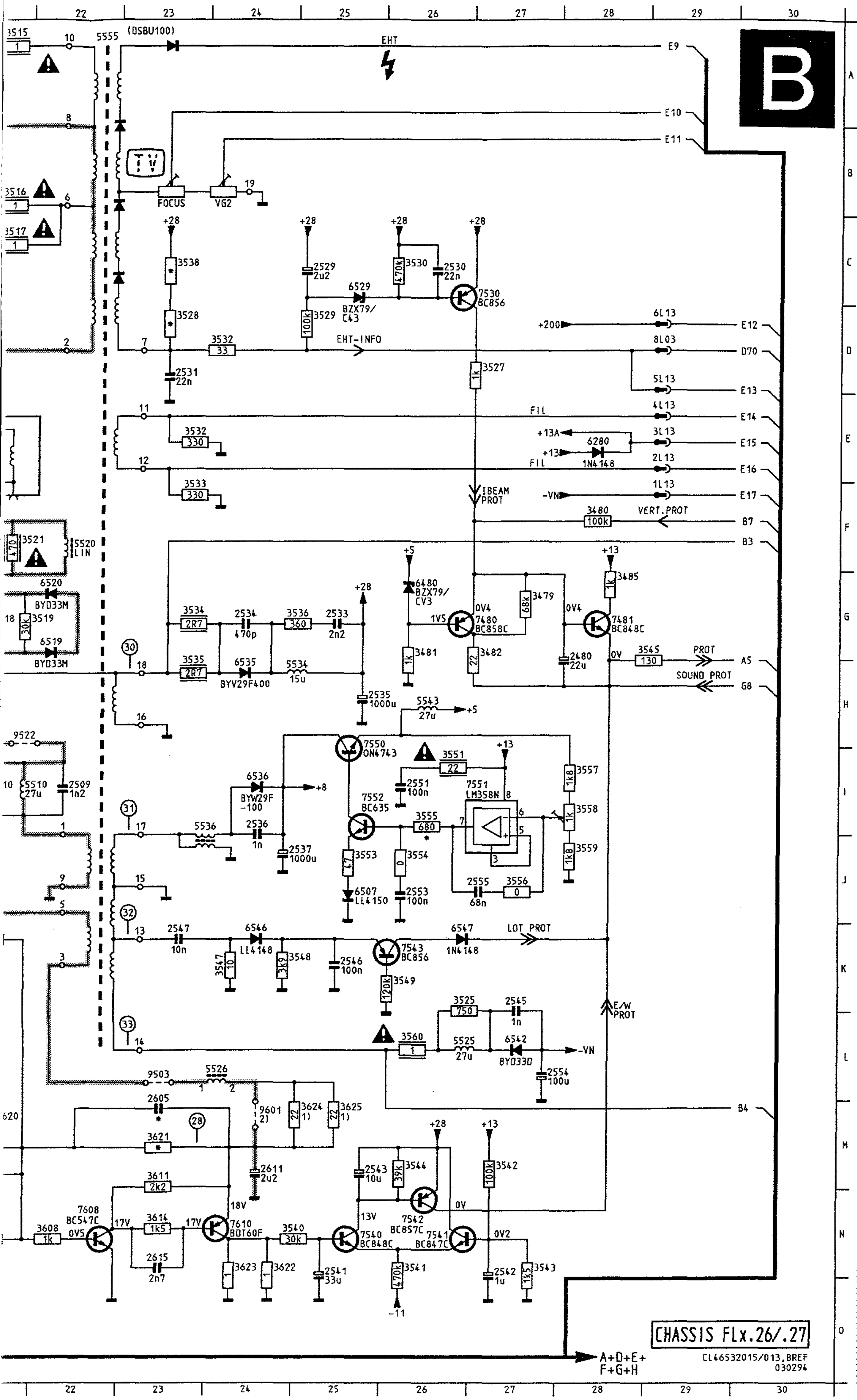
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	25"	28"	29"	33"
2456	470u	470u	1000u	680u
2457	1u5	1u5	1u	1u5
2504	270p	560p	-	560p
2505	270p	680p	330p	680p
2507	-	-	220n	-
2520	390n	470n	560n	470n
2523	8n2	8n2	11n	8n2
2524	27n	27n	15n	27n
2528	-	-	12n	-
2603	68n	47n	68n	100n
2605	1n5	2n7	2n7	2n2
2606	-	-	-	100n
3409	56k	510k	560k	560k
3411	100k	91k	75k	120k
3420	3M9	3M9	820k	3M9
3422	1M2	1M2	1M3	1M5
3423	820k	820k	1M1	1M
3456	120k	120k	120k	130k
3457	8k2	8k2	8k2	9k1
3460	270	270	390	270
3466	1k5	2k7	-	4k3
3469	1k	2k7	-	4k3
3404	1R2	1	1	1
3505	33	33	33	47
3506	1R2	1	1	1
3507	33	33	-	47
3508	1k8	1k8	1k8	1k5
3528	1k2	1k2	1k	1k2
3538	12k	12k	13k	12k
3601	100k	100k	100k	150k
3602	10k	10k	22k	10k
3603	15k	18k	10k	20k
3603 (FRANCE)	12k	12k	10k	15k
3604	130k	160k	120k	180k
3605	13k	13k	4k7	24k
3606	33k	33k	15k	22k
3621	-	-	160k	-
3632	100	100	100	15k
3633	240k	100k	82k	200k
4509	-	-	+	-
5504	-	-	0u82	-
5506	-	-	0u82	-
5548	-	-	+	-
7504	ON4673	ON4673	-	ON4673
7506	ON4673	ON4673	2SC4288A	ON4673
9505	+	+	-	+
9548	+	+	-	+
9551	+	+	-	+

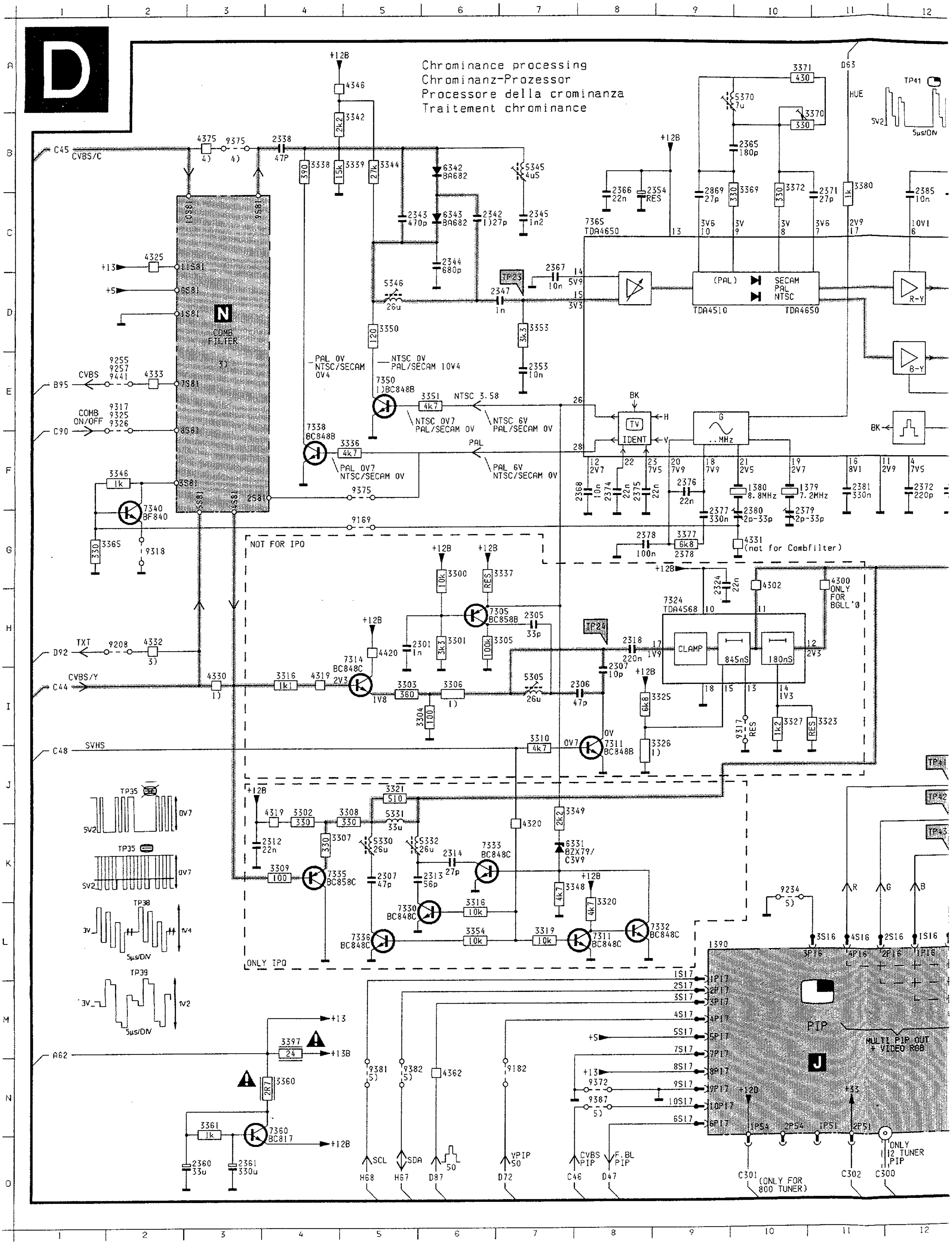
1) ONLY FOR FLx.27
2) NOT FOR FLx.27

FLx.26/.27 (4:3)

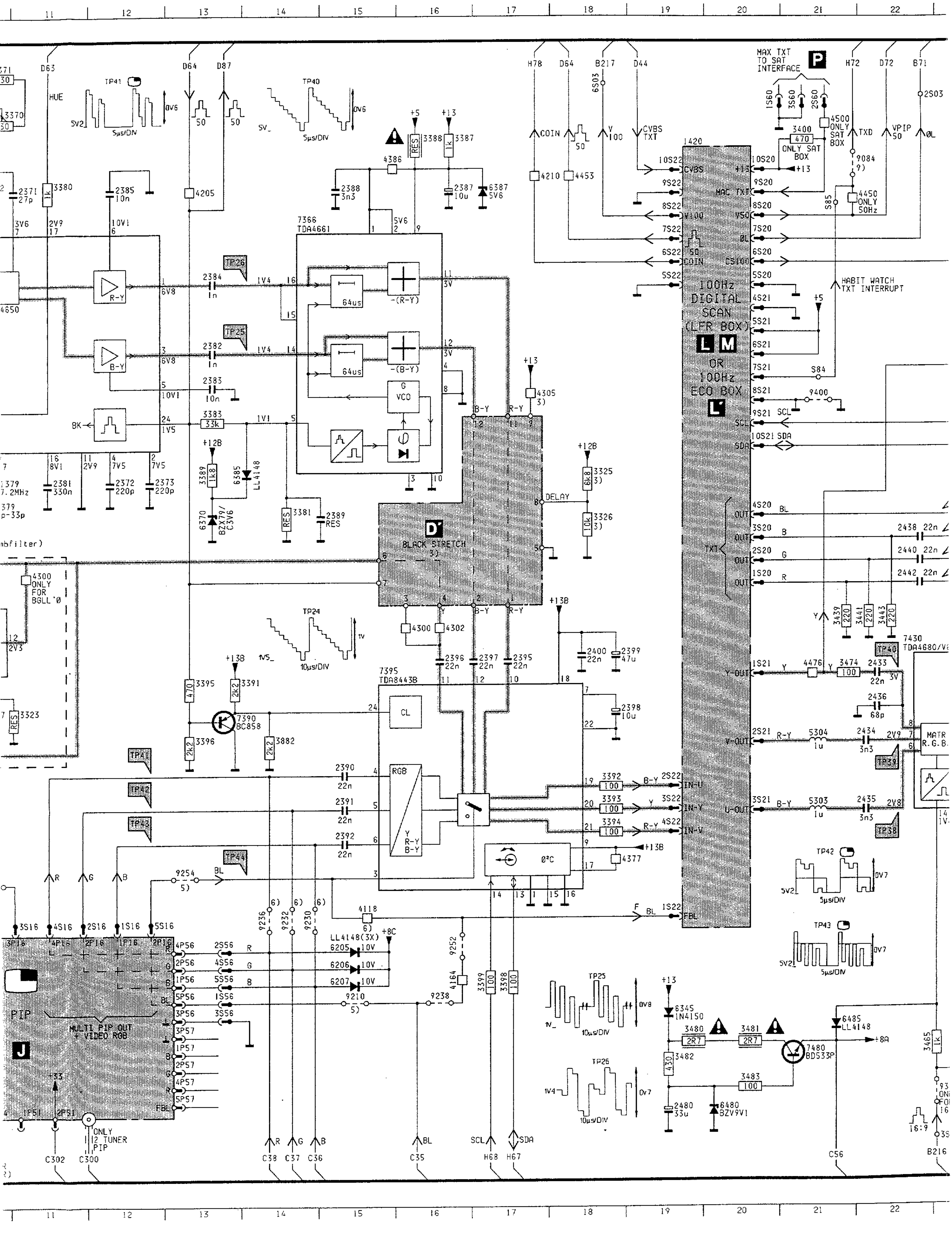

NTSC E/W PANEL
4822 212 30195
Horizontal
Orizzontale
Horizontal
Horizontal
East / West
Ost - West
Est / Ovest
Est / Ouest
NTSC E/W PANEL
ONLY FRANCE
TP 68
10V
0V1
0.8V
5µs/DIV
+V START
7417
BC858C
3418
200
6417
LLZC2V4
3417
2K2
2417
1n2
2416
100n
3421
2K7
2418
22n
2419
330u
+13
3419
22
3408
56K
+13F
3431
33k
FLYBACK
PULSE
3509
150k
+141
3508
11V5
TP68
TP70
3407
560
2409
22n
3437
470
3430
10k
3438
100
7403
BC858C
6405
LL4148
2503
470p
3502
7K5
3503
7K5
5503
55V
3500
470
7501
BSN304
3501
3K9
2502
100n
3429
1k
7402
BC848C
0V4
3443
1K1
6404
LL4148
3440
2K2
5504
9505
3504
TP54
7504
54V
4509
6504
BYD330
3505
2507
7506
3506
1
6506
BYD330
3507
9548
5518
5506
9551
2412
100p
3428
33k
2408
270p
6403
LL4148
7512
BD135-16
DC-SHIFT
3514
24
5514
0u15
3513
4K7
3512
330
3537
24
7513
BD136-16
+141
5511
39u
2512
22u
2511
47u
2513
22u
6515
BYD330
3515
1
6516
BYD330
3516
1
6517
BYD330
3517
1
+200
2517
470P
2518
4u7
2504
2505
2523
2524
2528
5524
3524
4R7
6527
BY359F
1500
5527
0u56
3526
6R8
6526
BY229F-600
9501
LINE
COIL
1L31
5627
2L31
3522
1K
3520
470
3521
470
5520
LIN
2519
1u
6520
BYD33M
2520
3518
30K
3519
30K
6519
BYD33M
2521
560n
5521
U15
9522
3510
150
5510
27u
2509
1n2
+13F
2L87
1L87
3650
18K
3656
10K
7650
BC848C
6650
LLZ-9V1
3654
2K2
7652
BC848C
6651
LL4148
3651
1K
3655
2K2
7651
BC848C
3653
100K
3652
8K2
3L87
5L87
9459
4420
COIL
VERTICAL
FEEDBACK
2Y33
1Y33
2Y68
1Y68
1L68
2L68
2Y30
3Y30
2L30
1L30
3456
2456
2457
3457
3458
1R5
3459
1R5
3461
1
3462
1
3463
1
+28
2458
22n
2460
100n
3468
220
3455
470
3467
10K
7469
BC636
3470
3K9
2L03
D71
6629
LL4148
7618
BC848
3630
100k
3631
1K8
3629
220K
3633
3626
30k
3465
680
3466
3469
6465
LL4148
4469
4467
100
7L03
ASP
RATIO
B4
B3
D66
B18
9407
9406
3600
9K1
13K
FOR 33"
3602
3603
2601
22n
4421
2609
120n
3609
47k
3610
4K7
3615
470
+13
2610
2u2
2613
4n7
3616
3K3
7603
BC858
6V5
3V5
3617
2K2
7602
BC858
6V7
7601
BC848
0V3
3619
2K2
2600
4u7
3620
6K2
3604
3618
68K
3561
1K5
6538
LLZ/
C5V6
-VN
3607
22K
3606
3608
1k
BC54
0V5
TV

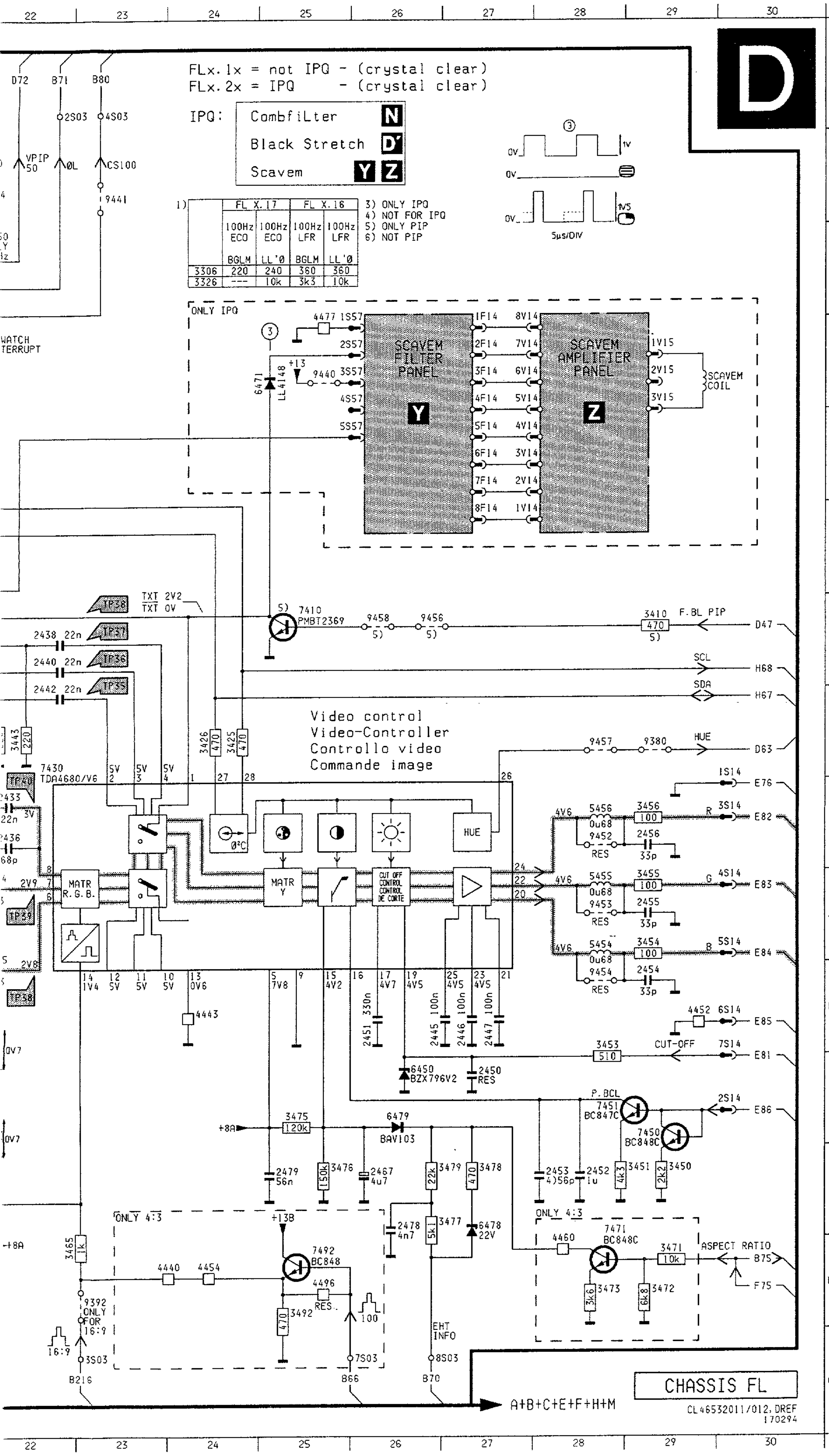

B
22 23 24 25 26 27 28 29 30
A B C D E F G H I J K L M N O
3515 10 5555 (DSBU100) EHT E9
E10
E11
TV FOCUS VG2 19
3516 6 3517 8
+28 3538 3528 +28 2529 2u2 6529 BZX79/C43 3529 100k +28 3530 470k 2530 22n 7530 BC856 +28
+200 6L13 E12
2 7 3532 33 EHT-INFO 8L03 D70
2531 22n 3527 1k 5L13 E13
11 3532 330 FIL 4L13 E14
+13A 3L13 E15
+13 6280 1N4148
12 3533 330 FIL 2L13 E16
IBEAM PROT -VN 1L13 E17
3480 100k VERT.PROT B7
3521 470 5520 LIN B3
6520 BYD33M 18 3519 30k 6519 BYD33M
+5 6480 BZX79/CV3 +28 68k 3479 +13 3485 1k
3534 2R7 2534 470p 3536 360 2533 2n2 0V4 1V5 7480 BC858C 0V4 7481 BC848C
30 18 3535 2R7 6535 BYV29F400 5534 15u 3481 1k 3482 22 2480 22u 0V 3545 130 PROT A5
SOUND PROT G8
2535 1000u 16 5543 27u +5
9522 7550 ON4743 3551 22 +13
10 5510 27u 2509 1n2 6536 BYW29F-100 +8 2551 100n 7551 LM358N 8 3557 1k8
31 17 5536 2536 1n 2537 1000u 7552 BC635 3555 680 7 6 5 3 3558 1k 3559 1k8
1 9 15 3553 47 3554 0 2555 68n 3556 0
6507 LL4150 2553 100n
5 32 13 2547 10n 6546 LL4148 3547 10 3548 3k9 2546 100n 7543 BC856 6547 1N4148 LOT PROT
3 3549 120k
3525 750 2545 1n E/W PROT
33 14 3560 1 5525 27u 6542 BYD33D -VN
9503 5526 1 2 2554 100u
620 2605 9601 2) 3624 22 1) 3625 22 1) B4
3621 28
+28 +13
2611 2u2 2543 10u 3544 39k 3542 100k
3611 2k2 18V 0V
7608 BC547C 17V 3614 1k5 17V 7610 BDT60F 13V 7542 BC857C
3608 1k 0V5 3540 30k 7540 BC848C 7541 BC847C 0V2
2615 2n7 3623 1 3622 1 2541 33u 3541 470k 2542 1u 3543 1k5
-11
A+D+E+ F+G+H
CHASSIS FLx.26/.27
CL46532015/013.BREF 030294

2401	F 6	3458	L13	4410	H 7
2402	D 6	3459	L13	4412	H 7
2403	D 8	3460	N10	4420	I11
2404	C 6	3461	M12	4421	O18
2405	D 6	3462	M13	4467	O15
2406	C 9	3463	M13	4469	N16
2408	H18	3465	N15	4509	E17
2409	F11	3466	N15	5503	F15
2410	I 7	3467	N10	5504	E15
2411	H 8	3468	N11	5506	G16
2412	G17	3469	N16	5510	I21
2415	G 9	3470	N12	5511	A20
2416	D10	3473	M10	5514	A19
2417	C10	3479	G27	5520	F22
2418	D12	3480	F28	5521	H21
2419	D12	3481	G26	5524	G18
2450	L 5	3482	G27	5525	L26
2451	L 5	3483	F 5	5526	L24
2452	M10	3484	F 5	5527	E19
2455	K 6	3485	F28	5534	H25
2456	L13	3500	F14	5536	I23
2457	M12	3501	G14	5543	H26
2458	M11	3502	F14	5548	G17
2459	L10	3503	F14	5555	A22
2460	M11	3504	E16	5627	E21
2480	G28	3505	E16	6280	E28
2502	G14	3506	F16	6403	H17
2503	E14	3507	F16	6404	H14
2504	F18	3508	D14	6405	H10
2505	F18	3509	D16	6417	C11
2507	E17	3510	I21	6440	E 4
2509	I22	3512	A18	6441	E 4
2511	B20	3513	B17	6451	N 9
2512	A20	3514	A19	6452	M10
2513	B20	3515	A21	6465	O15
2517	C21	3516	B21	6480	G26
2518	D20	3517	C21	6504	E16
2519	G21	3518	G21	6506	F16
2520	G20	3519	G21	6507	J25
2521	H20	3520	F21	6515	A21
2523	E18	3521	F21	6516	B21
2524	F18	3522	F20	6517	C21
2528	F19	3524	G19	6519	G22
2529	C25	3525	K26	6520	G22
2530	C26	3526	E19	6526	F19
2531	D23	3527	D27	6527	D19
2533	G25	3528	D23	6529	C25
2534	G24	3529	D25	6535	H24
2535	H25	3530	C26	6536	I24
2536	I24	3532	E23	6538	N20
2537	J24	3532	D24	6542	L27
2541	N25	3533	F23	6546	K24
2542	N27	3534	G23	6547	K26
2543	M25	3535	H23	6629	L15
2545	K27	3536	G25	6650	J15
2546	K25	3537	B19	6651	J17
2547	K23	3538	C23	7400	D 6
2551	I26	3540	N25	7402	G14
2553	J26	3541	N26	7403	G11
2554	L27	3542	M27	7407	H 6
2555	J27	3543	N27	7417	B10
2600	L21	3544	M26	7444	C 5
2601	N18	3545	G29	7445	D 4
2603	I 9	3547	K24	7450	K 6
2605	M23	3548	K24	7451	K 5
2606	I10	3549	K26	7469	N11
2609	K19	3551	I26	7480	G27
2610	L19	3553	J25	7481	G28
2611	M24	3554	J26	7501	F15
2613	L20	3555	I26	7504	E17
2615	N23	3556	J27	7506	F17
3402	D 7	3557	I28	7512	A18
3403	D 8	3558	I28	7513	B18
3404	D 5	3559	J28	7530	C27
3405	C 9	3560	L26	7540	N25
3406	D 9	3561	N19	7541	N26
3407	F13	3600	L18	7542	N26
3408	D13	3601	H 9	7543	K26
3409	H 7	3602	N17	7550	I25
3410	B10	3603	N18	7551	I26
3411	H 7	3604	K21	7552	I25
3413	G 9	3605	I10	7601	M19
3414	G 6	3606	N21	7602	M20
3415	G 5	3607	N20	7603	L20
3416	G 9	3608	N22	7608	N22
3417	C10	3609	K19	7610	N24
3418	B11	3610	K20	7616	H 5
3419	C13	3611	M23	7618	L15
3420	H 9	3614	N23	7650	J15
3421	D11	3615	K20	7651	K17
3422	H 7	3616	L20	7652	J16
3423	G 7	3617	L20	9406	L18
3424	G 8	3618	N19	9407	L17
3425	B 9	3619	M20	9459	I10
3426	E 4	3620	M21	9473	C 4
3427	C 9	3621	M23	9501	D21
3428	H17	3622	N24	9503	L23
3429	G14	3623	N24	9505	E15
3430	G11	3624	M25	9522	H21
3431	D14	3625	M25	9548	G16
3437	G10	3626	M15	9551	G16
3438	G11	3627	H 5	9601	M24
3439	E 4	3628	H 4		
3440	I14	3629	M16		
3441	E 5	3630	L15		
3442	E 5	3631	M16		
3443	H13	3632	I 9		
3444	D 4	3633	M15		
3445	D 3	3634	H 5		
3446	C 4	3650	I15		
3450	K 5	3651	J15		
3451	K 5	3652	K18		
3452	L10	3653	K15		
3455	N12	3654	J16		
3456	L12	3655	J16		
3457	L12	3656	I16		


D
Chrominance processing
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance
N
COMB FILTER
7365 TDA4650
TDA4510
(PAL) SECAM PAL NTSC
R-Y
B-Y
TV IDENT
G ..MHz
BK
HUE
1380 8.8MHz
1379 7.2MHz
7324 TDA4568
CLAMP
845nS
180nS
NOT FOR IPQ
ONLY IPQ
1390
PIP
J
MULTI PIP OUT + VIDEO RGB
C45 CVBS/C
B95 CVBS
C90 COMB ON/OFF
D92 TXT
C44 CVBS/Y
C48 SVHS
A62
H68 SCL
H67 SDA
D87
D72 VPIP
C46 CVBS PIP
D47 F.BL PIP
C301 (ONLY FOR 800 TUNER)
C302
C300 ONLY I2 TUNER PIP
7350 BC848B
7338 BC848B
7340 BF840
7314 BC848C
7305 BC858B
7311 BC848B
7335 BC858C
7333 BC848C
7330 BC848C
7336 BC848C
7332 BC848C
7360 BC817
6342 BA682
6343 BA682
6331 BZX79/C3V9
3397 24
3360 2R7
PAL 0V NTSC/SECAM 0V4
NTSC 0V PAL/SECAM 10V4
NTSC 3.58
NTSC 0V7 PAL/SECAM 0V
NTSC 6V PAL/SECAM 0V
PAL 0V7 NTSC/SECAM 0V
PAL 6V NTSC/SECAM 0V
4331 (not for Combfilter)
4300 ONLY FOR BGLL'0
TP23
TP24
TP35
TP38
TP39
TP41
5µs/DIV
+12B
+13B
+12D
+33
+13
+5

9 Traitement vidéo


11
12
13
14
15
16
17
18
19
20
21
22
D63
HUE
D64
D87
TP41
5V2
5μs/DIV
0V6
50
TP40
SV_
5μs/DIV
0V6
+5
+13
3388
RES
3387
1k
4386
2388
3n3
2387
10u
6387
5V6
7366
TDA4661
3380
2385
10n
2371
27p
4205
TP26
TP25
2384
1n
1V4
2382
1n
2383
10n
3383
33k
1V1
6V8
10V1
1V5
R-Y
B-Y
BK
64us
-(R-Y)
-(B-Y)
G
VCO
4650
2381
330n
2372
220p
2373
220p
+12B
3389
1k8
6385
LL4148
6370
BZX79/C3V6
3381
RES
2389
RES
D'
BLACK STRETCH
3)
DELAY
+13
4305
3)
+12B
3325
6k8
3)
3326
10k
3)
4300
ONLY
FOR
BGLL'0
4300
4302
TP24
1V5_
10μs/DIV
1V
2396
22n
2397
22n
2395
22n
+13B
2400
22n
2399
47u
7395
TDA8443B
CL
2398
10u
+13B
3395
470
3391
2k2
7390
BC858
3396
2k2
3882
2k2
3323
RES
TP41
TP42
TP43
TP44
2390
22n
2391
22n
2392
22n
RGB
Y
R-Y
B-Y
3392
100
3393
100
3394
100
B-Y
Y
R-Y
0°C
4377
9254
5)
BL
4118
6)
+8C
LL4148(3X)
6205
6206
6207
10V
9252
9210
5)
9238
4164
3399
100
3398
100
9236
9232
9230
R
G
B
3S16
4S16
2S16
1S16
5S16
3P16
4P16
2P16
1P16
2P16
4P56
2P56
1P56
5P56
3P56
3P57
1P57
2P57
4P57
5P57
2S56
4S56
5S56
1S56
3S56
PIP
J
MULTI PIP OUT
+ VIDEO RGB
+33
1P51
2P51
ONLY
12 TUNER
PIP
C302
C300
C38
C37
C36
C35
H68
H67
SCL
SDA
H78
D64
B217
D44
6S03
COIN
50
Y
100
CVBS
TXT
4210
4453
MAX TXT
TO SAT
INTERFACE
P
1S60
3S60
2S60
4500
ONLY
SAT
BOX
3400
470
ONLY SAT
BOX
H72
D72
B71
TXD
VPIP
50
0L
2S03
9084
9)
S85
4450
ONLY
50Hz
1420
10S22
9S22
8S22
7S22
6S22
5S22
CVBS
V100
COIN
10S20
9S20
8S20
7S20
6S20
5S20
MAC TXT
V50
0L
CS100
100Hz
DIGITAL
SCAN
(LFR BOX)
L M
OR
100Hz
ECO BOX
L'
4S21
5S21
6S21
7S21
8S21
9S21
10S21
SCL
SDA
+5
S84
9400
HABIT WATCH
TXT INTERRUPT
4S20
3S20
2S20
1S20
OUT
TXT
BL
B
G
R
2438 22n
2440 22n
2442 22n
3439
220
3441
220
3443
220
1S21
Y-OUT
4476
3474
100
2433
22n
3V
TP40
7430
TDA4680/V
2436
68p
2S21
V-OUT
R-Y
5304
1u
2434
3n3
2V9
MATR
R.G.B.
TP39
3S21
U-OUT
B-Y
5303
1u
2435
3n3
2V8
TP38
2S22
3S22
4S22
IN-U
IN-Y
IN-V
1S22
FBL
TP42
0V7
5V2
5μs/DIV
TP43
0V7
5V2
5μs/DIV
TP25
0V8
1V_
10μs/DIV
TP26
1V4
0V7
10μs/DIV
+13
6345
1N4150
3480
2R7
3481
2R7
3482
430
3483
100
7480
BD533P
2480
33u
6480
BZV9V1
6485
LL4148
+8A
3465
1k
16:9
C56
B216


22
23
24
25
26
27
28
29
30
D
D72
B71
B80
2S03
4S03
VPIP 50
ØL
CS100
9441
WATCH
TERRUPT
③
1V
0V
5μs/DIV
1V5
ONLY IPQ
4477 1S57
2S57
3S57
4S57
5S57
9440
+13
6471
LL4148
SCAVEM FILTER PANEL
Y
1F14
2F14
3F14
4F14
5F14
6F14
7F14
8F14
8V14
7V14
6V14
5V14
4V14
3V14
2V14
1V14
SCAVEM AMPLIFIER PANEL
Z
1V15
2V15
3V15
SCAVEM COIL
TP38
TXT 2V2
TXT 0V
TP37
TP36
TP35
2438 22n
2440 22n
2442 22n
3443 220
5) 7410 PMBT2369
9458 5)
9456 5)
3410 470 5)
F.BL PIP
D47
SCL
H68
SDA
H67
3426 470
3425 470
Video control
Video-Controller
Controllo video
Commande image
9457
9380
HUE
D63
7430 TDA4680/V6
TP40
2433 22n 3V
2436 68p
2V9
TP39
2V8
5V 2
5V 3
5V 4
1
27
28
26
0°C
HUE
MATR R.G.B.
MATR Y
CUT OFF CONTROL CONTROL DE CORTE
1S14
E76
4V6
5456 0u68
9452 RES
3456 100
2456 33p
R 3S14
E82
5455 0u68
9453 RES
3455 100
2455 33p
G 4S14
E83
5454 0u68
9454 RES
3454 100
2454 33p
B 5S14
E84
24
22
20
14 1V4
12 5V
11 5V
10 5V
13 0V6
4443
5 7V8
9
15 4V2
16
17 4V7
19 4V5
25 4V5
23 4V5
21
2451 330n
2445 100n
2446 100n
2447 100n
4452 6S14
E85
3453 510
CUT-OFF 7S14
E81
6450 BZX79C4V2
2450 RES
0V7
0V7
P.BCL
7451 BC847C
7450 BC848C
2S14
E86
+8A
3475 120k
6479 BAV103
2479 56n
3476 150k
2467 4u7
3479 22k
3478 470
2453 4)56p
2452 1u
3451 4k3
3450 2k2
ONLY 4:3
+13B
7492 BC848
2478 4n7
3477 5k1
6478 22V
+8A
3465 1k
4440
4454
4496 RES.
3492 470
100
9392 ONLY FOR 16:9
16:9
3S03
7S03
8S03
EHT INFO
B216
B66
B70
ONLY 4:3
4460
7471 BC848C
3471 10k
3473 3k6
3472 6k8
ASPECT RATIO
B75
F75
A+B+C+E+F+H+M

FLx.1x = not IPQ - (crystal clear)
FLx.2x = IPQ - (crystal clear)

IPQ: Combfilter **N**
Black Stretch **D'**
Scavem **Y** **Z**

1)

	FL X.17		FL X.16	
	100Hz ECO BGLM	100Hz ECO LL'0	100Hz LFR BGLM	100Hz LFR LL'0
3306	220	240	360	360
3326	---	10k	3k3	10k

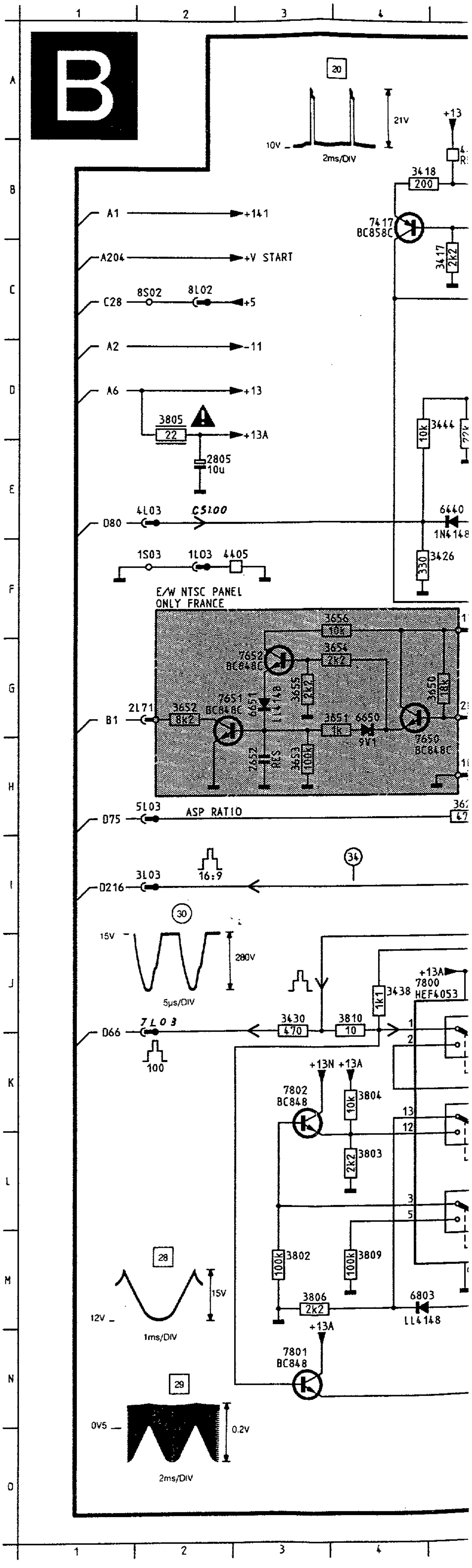
3) ONLY IPQ
4) NOT FOR IPQ
5) ONLY PIP
6) NOT PIP

CHASSIS FL

CL 46532011/012, DREF 170294

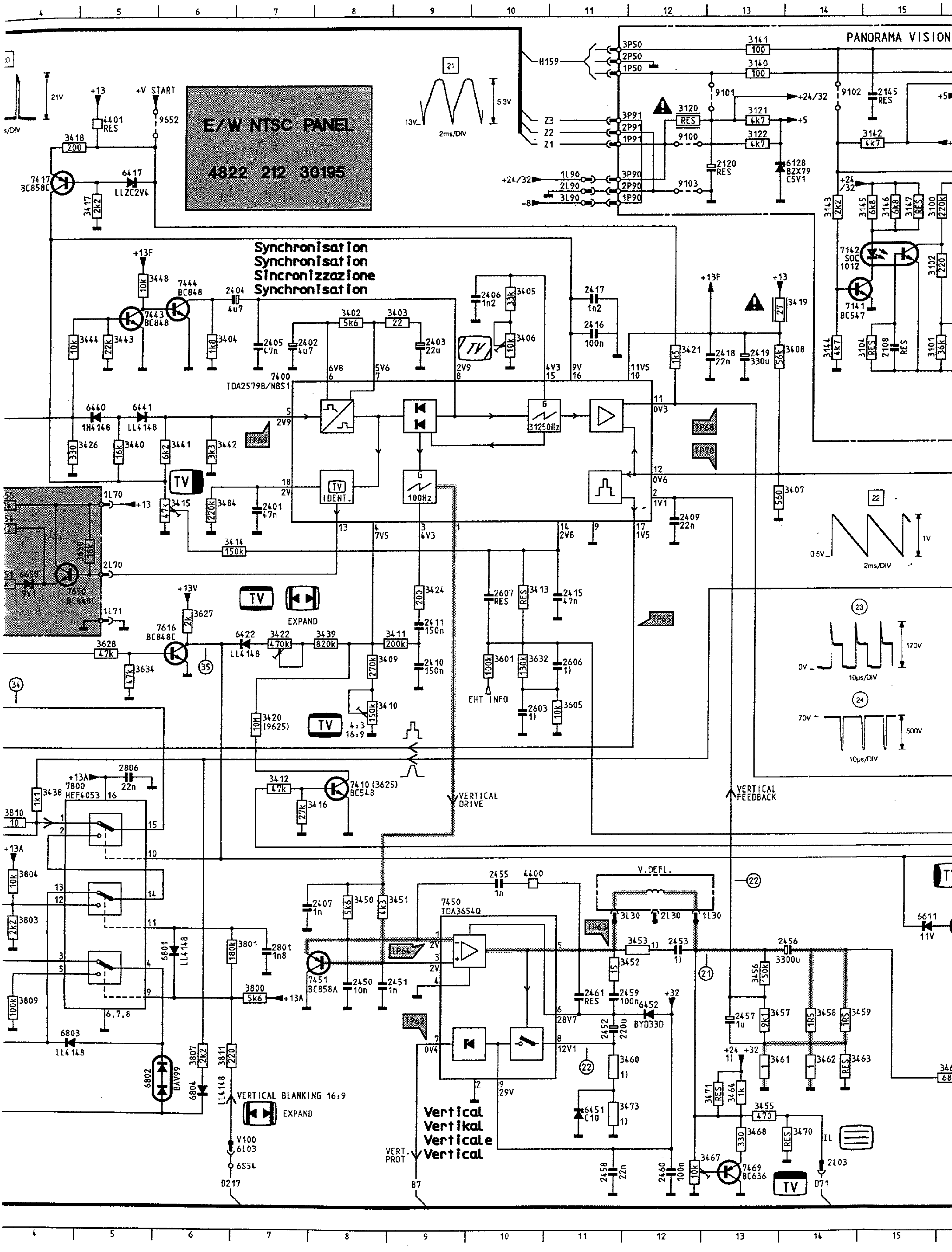
1379	F10	3370	B10	7332	L 8
1380	F10	3371	A10	7333	K 6
1390	L 9	3372	B10	7335	K 4
1420	B19	3377	G 9	7336	L 5
2301	H 5	3380	B11	7338	F 4
2305	H 7	3381	G14	7340	G 2
2306	I 8	3383	E13	7350	E 5
2307	I 8	3387	B16	7360	N 4
2307	K 5	3388	B16	7365	C 8
2312	K 3	3389	F13	7366	C14
2313	K 6	3391	I13	7390	I13
2314	K 6	3392	J18	7395	I15
2318	H 8	3393	J18	7410	G25
2324	H 9	3394	K18	7430	H22
2338	B 4	3395	I13	7450	L29
2342	C 6	3396	J13	7451	L28
2343	C 5	3397	M 4	7471	M28
2344	C 6	3398	M17	7480	N21
2345	C 7	3399	M17	7492	N25
2347	D 7	3400	B21	9084	B21
2353	E 7	3410	G29	9169	G 5
2354	C 8	3425	H24	9182	N 7
2360	O 3	3426	H24	9208	H 2
2361	O 3	3439	H21	9210	M15
2365	B10	3441	H22	9230	L14
2366	C 8	3443	H22	9232	L14
2367	D 7	3450	M29	9234	K10
2368	F 8	3451	M29	9236	L14
2371	C11	3453	K28	9238	M16
2372	F12	3454	J29	9252	L16
2373	F12	3455	J29	9254	K13
2375	F 8	3456	I29	9255	E 2
2376	F 9	3465	N22	9317	E 2
2377	G 9	3471	N29	9317	I10
2378	G 8	3472	N29	9318	G 2
2378	G 9	3473	N28	9372	N 8
2379	G10	3474	I21	9375	B 3
2380	G10	3475	L25	9375	F 5
2381	F11	3476	M25	9380	H29
2382	E13	3477	M26	9381	N 5
2383	E13	3478	M27	9382	N 5
2384	D13	3479	M26	9387	N 8
2385	C12	3480	M19	9392	N23
2387	C16	3481	M20	9400	E21
2388	C15	3482	N19	9440	D25
2389	G15	3483	N20	9441	B23
2390	J15	3492	N25	9452	I28
2391	J15	3882	J14	9453	J28
2392	K15	4118	L15	9454	K28
2395	I17	4164	M16	9456	G26
2396	I16	4205	C13	9457	H28
2397	I17	4210	B17	9458	G26
2398	I18	4300	H11		
2399	I18	4300	H16		
2400	I18	4302	H10		
2433	I22	4302	H16		
2434	J22	4305	E17		
2435	J22	4319	I 4		
2436	I22	4319	J 4		
2438	G22	4320	K 7		
2440	G22	4325	C 2		
2442	H22	4330	I 3		
2445	K26	4331	G10		
2446	K27	4332	H 2		
2447	K27	4333	E 2		
2450	L27	4346	A 5		
2451	K26	4362	N 6		
2452	M28	4375	B 3		
2453	M28	4377	K18		
2454	K29	4386	B15		
2455	J29	4420	H 5		
2456	I29	4440	N24		
2467	M26	4443	K24		
2478	M26	4450	C22		
2479	M25	4452	K29		
2480	N19	4453	B18		
2869	C 9	4454	N24		
3300	G 6	4460	N28		
3301	H 6	4476	I21		
3302	J 4	4477	D25		
3303	I 5	4496	N25		
3304	I 6	4500	B21		
3305	H 6	5303	K21		
3306	I 6	5304	J21		
3307	K 4	5305	I 7		
3308	J 5	5330	K 5		
3309	K 4	5331	J 5		
3310	I 7	5332	K 6		
3316	I 4	5345	B 7		
3316	L 6	5346	D 5		
3319	L 7	5370	A10		
3320	K 8	5454	J28		
3321	J 5	5455	J28		
3323	I11	5456	I28		
3325	F18	6205	L15		
3325	I 8	6206	M15		
3326	G18	6207	M15		
3326	I 8	6331	K 7		
3327	I10	6342	B 6		
3336	F 5	6343	C 6		
3337	G 6	6345	M19		
3338	B 4	6370	G13		
3339	B 5	6385	F13		
3342	B 5	6387	C17		
3344	B 5	6450	L26		
3346	F 2	6471	D25		
3348	K 7	6478	M27		
3349	J 7	6479	L26		
3350	D 5	6480	N20		
3351	E 6	6485	M21		
3353	D 7	7305	H 6		
3354	L 6	7311	J 8		
3360	N 4	7311	L 8		
3361	N 3	7314	H 5		
3365	G 1	7324	H 9		
3369	B10	7330	L 5		

Synchro

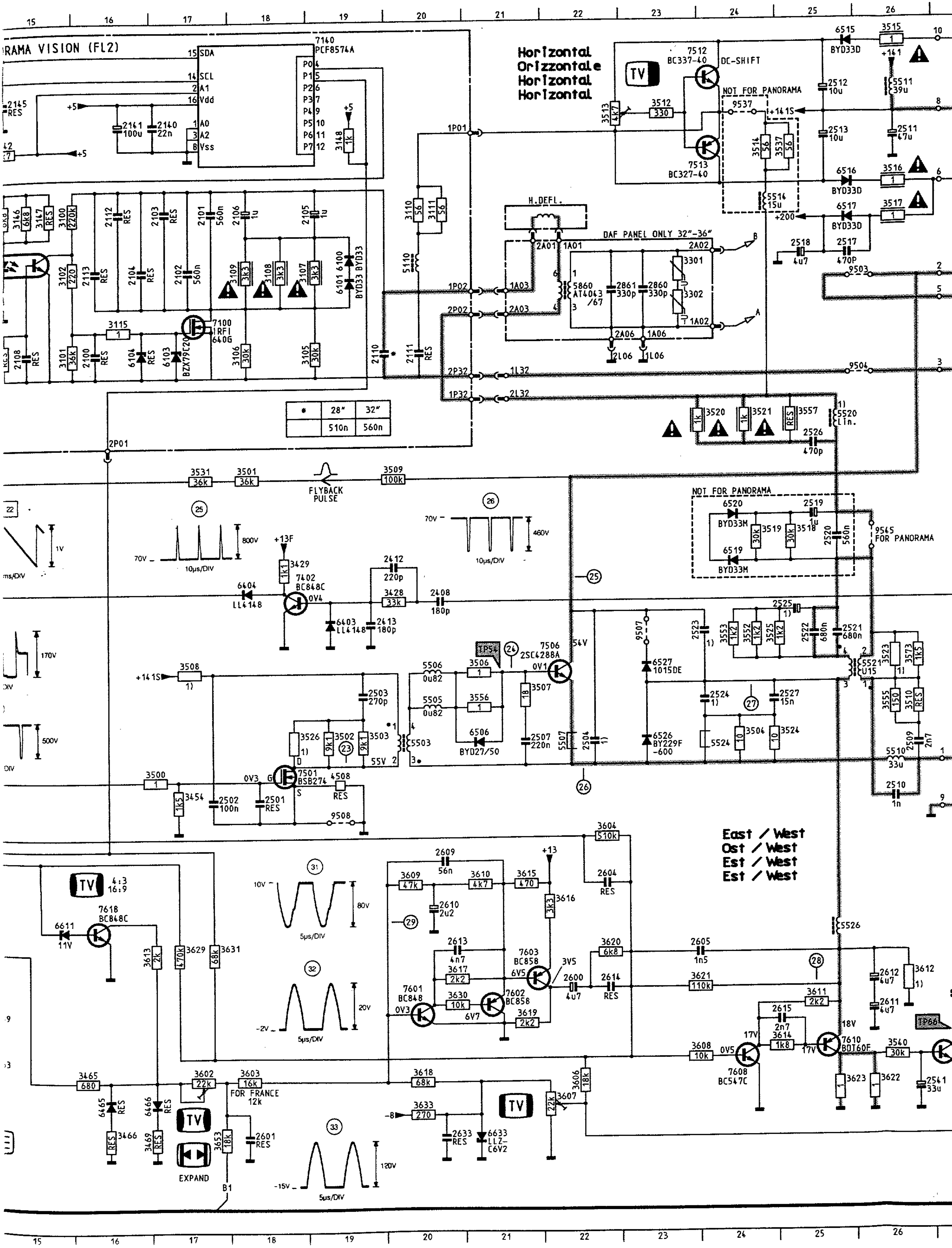


1
2
3
4
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
B
20
21V
10V
2ms/DIV
+13
3418
200
7417
BC858C
3417
2k2
A1
+141
A204
+V START
C28
8S02
8L02
+5
A2
-11
A6
+13
3805
22
+13A
2805
10u
3444
10k
D80
4L03
C5100
6440
1N4148
3426
330
1S03
1L03
4405
E/W NTSC PANEL
ONLY FRANCE
3656
10k
3654
2k2
7652
BC848C
3655
2k2
6651
LL4148
7651
BC848C
B1
2L71
3652
8k2
3651
1k
6650
9V1
3650
18k
7650
BC848C
2652
3653
100k
D75
5L03
ASP RATIO
D216
3L03
16:9
34
30
15V
280V
5µs/DIV
D66
7L03
100
3430
470
3810
10
3438
1k1
+13A
7800
HEF4053
+13N
+13A
7802
BC848
3804
10k
3803
2k2
13
12
3
5
3802
100k
3809
100k
3806
2k2
6803
LL4148
+13A
7801
BC848
28
12V
15V
1ms/DIV
29
0V5
0.2V
2ms/DIV

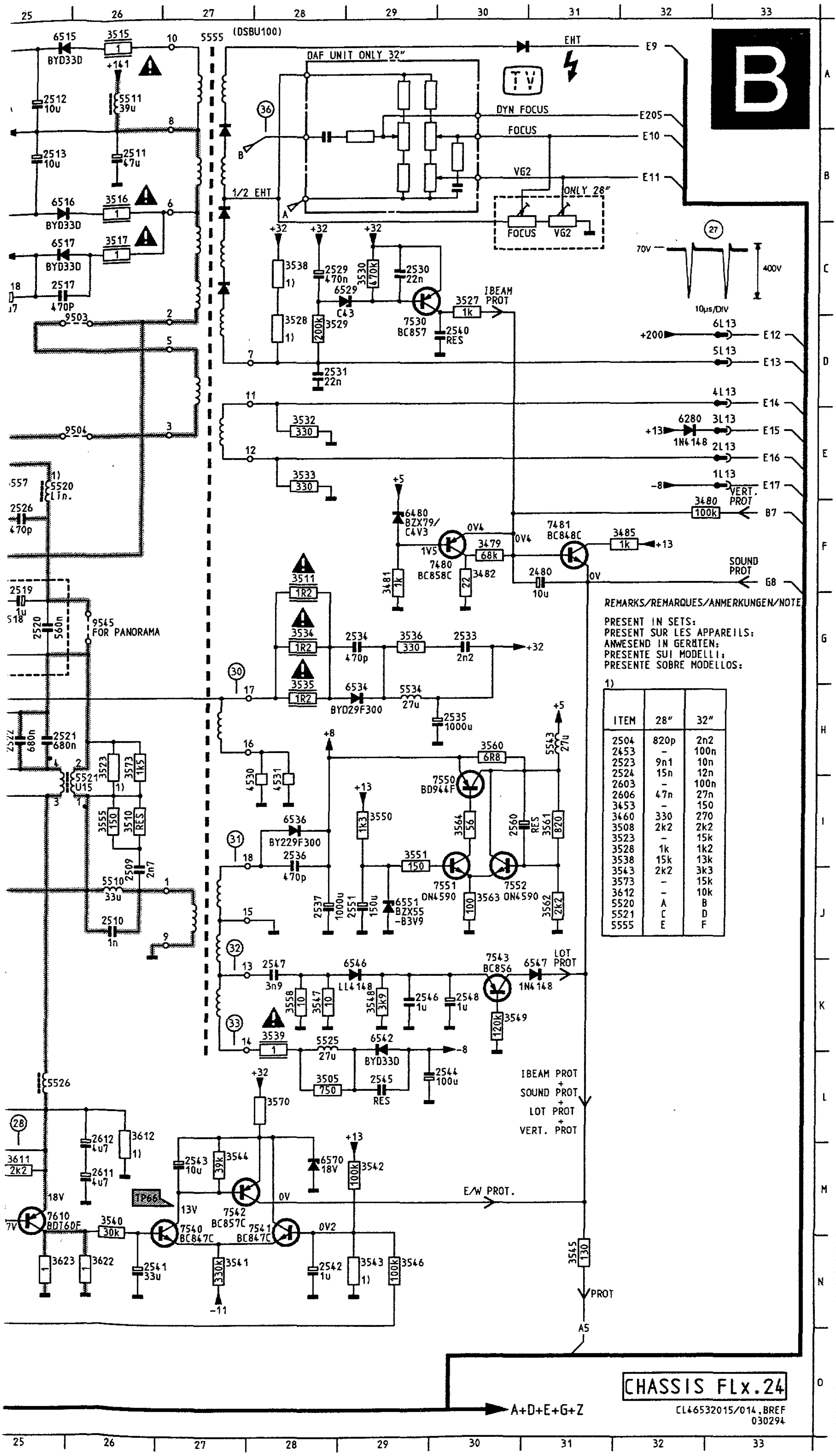
Synchronization / Synchronisierung / Synchronisation


PANORAMA VISION
E/W NTSC PANEL
4822 212 30195
Synchronisation
Synchronisierung
Sincronizzazione
Synchronisation
7400
TDA2579B/N8S1
31250Hz
100Hz
TV IDENT.
7450
TDA3654Q
V.DEFL.
Vertical
Vertikal
Verticale
Vertical
VERTICAL DRIVE
VERTICAL FEEDBACK
VERTICAL BLANKING 16:9
EXPAND
EHT INFO
VERT. PROT
7800
HEF4053
7417
BC858C
7444
BC848
7443
BC848
7650
BC848C
7616
BC848C
7410 (3625)
BC548
7451
BC858A
7469
BC636
7142
SOC 1012
7141
BC547
6128
BZX79
C5V1
6417
LLZC2V4
6440
1N4148
6441
LL4148
6422
LL4148
6650
9V1
6802
BAV99
6803
LL4148
6801
LL4148
6804
LL4148
6452
BYD33D
6451
C10
6611
11V
H159
3P50
2P50
1P50
3P91
2P91
1P91
3P90
2P90
1P90
1L90
2L90
3L90
1L70
2L70
1L71
3L30
2L30
1L30
V100
6L03
6S54
D217
B7
D71
2L03
+24/32
+5
+13
+13F
+13V
+13A
+32
-8
+V START
9652
9100
9101
9102
9103
TP62
TP63
TP64
TP65
TP68
TP69
TP70
21V
21
13V
5.3V
2ms/DIV
22
0.5V
1V
23
0V
170V
10µs/DIV
24
70V
500V
4:3
16:9
IL
TV
6V8
5V6
2V9
4V3
9V
11V5
0V3
0V6
1V1
2V8
1V5
7V5
28V7
12V1
29V
0V4
2V
4
5
6
7
8
9
10
11
12
13
14
15

FLx.24 (16:9)


RAMA VISION (FL2)
7140
PCF8574A
SDA
SCL
A1
Vdd
A0
A2
Vss
P0 P1 P2 P3 P4 P5 P6 P7
+5
2141 100u
2140 22n
3148 1k
2145 RES
Horizontal
Orizzontale
Horizontal
Horizontal
TV
7512 BC337-40
DC-SHIFT
7513 BC327-40
3513 4k7
3512 330
NOT FOR PANORAMA
9537
+141S
3514 56
3537 56
5514 15u
+200
6515 BYD33D
3515 1
+141
5511 39u
2512 10u
2513 10u
2511 47u
6516 BYD33D
3516 1
6517 BYD33D
3517 1
2518 4u7
2517 470P
9503
9504
1P01
1P02
2P02
2P32
1P32
2P01
3110 56
3111 56
5110
2110 *
2111 RES
H.DEFL.
DAF PANEL ONLY 32"-36"
2A01
1A01
2A02
1A03
2A03
5860 AT4043/67
2861 330p
2860 330p
3301
3302
1A02
2A06
1A06
2L06
1L06
1L32
2L32
B
A
3146 6k8
3147 RES
3100 270k
2112 RES
2103 RES
2101 560n
2106 1u
2105 1u
3102 220
2113 RES
2104 RES
2102 560n
3109 3k3
3108 3k3
3107 3k3
6101 6100 BYD33 BYD33
3115 1
7100 IRF1 640G
2108 RES
3101 36k
2100 RES
6104 RES
6103 BZX79C20
3106 30k
3105 30k
* | 28" | 32"
| 510n | 560n
3520 1k
3521 1k
3557 RES
5520 Lin.
2526 470p
3531 36k
3501 36k
FLYBACK PULSE
3509 100k
NOT FOR PANORAMA
6520 BYD33M
2519 1u
3519 30k
3518 30k
2520 560n
9545 FOR PANORAMA
6519 BYD33M
25
800V
70V
10µs/DIV
26
70V
460V
10µs/DIV
22
1V
ms/DIV
170V
500V
DIV
+13F
3429 1k1
7402 BC848C
0V4
6404 LL4148
6403 LL4148
2413 180p
2412 220p
3428 33k
2408 180p
1P54
24
7506 2SC4288A
54V
0V1
5506 0u82
3506 1
5505 0u82
3556 1
6506 BYD27/50
3507 18
2507 220n
5507
2504 1)
9507
6527 1015DE
2523 1)
3553 1k2
3552 1k2
3525 1k2
2522 680n
2525 1u
2521 680n
5521 U15
3523 1)
3573 1k5
2524 1)
27
2527 15n
6526 BY229F -600
5524
3504 10
3524 10
3555 150
3510 RES
2509 2n7
5510 33u
2510 1n
+141S
3508 1)
2503 270p
3526 1)
3502 9k1
23
3503 9k1
5503
55V
7501 BSB274
0V3
4508 RES
3500 1
3454 1k5
2502 100n
2501 RES
9508
East / West
Ost / West
Est / West
Est / West
3604 510k
2604 RES
2609 56n
+13
3609 47k
3610 4k7
3615 470
2610 2u2
3616 3k3
29
10V
80V
5µs/DIV
31
32
20V
-2V
5µs/DIV
TV 4:3 16:9
7618 BC848C
6611 11V
3613 2k
3629 470k
3631 68k
2613 4n7
3617 2k2
7603 BC858
6V5
3V5
7601 BC848
0V3
3630 10k
7602 BC858
6V7
3619 2k2
2600 4u7
2614 RES
3620 6k8
2605 1n5
3621 110k
28
2612 4u7
3612 1)
2611 4u7
5526
3611 2k2
2615 2n7
3614 1k8
7610 BDT60F
17V
18V
1P66
3608 10k
0V5
7608 BC547C
3540 30k
3623 1
3622 1
2541 33u
3465 680
6465 RES
3466 RES
6466 RES
3469 RES
3602 22k
3603 16k
FOR FRANCE 12k
3653 18k
2601 RES
EXPAND
B1
3618 68k
-8
3633 270
2633 RES
6633 LLZ-C6V2
3607 22k
3606 18k
33
120V
-15V
5µs/DIV
15 16 17 18 19 20 21 22 23 24 25 26
10 8 6 2 5 3 1 9

B


25
26
27
28
29
30
31
32
33
6515
BYD33D
3515
10
5555
(DSBU100)
EHT
E9
DAF UNIT ONLY 32"
TV
+141
5511
39u
2512
10u
2513
10u
2511
47u
36
DYN FOCUS
E205
FOCUS
E10
VG2
E11
ONLY 28"
FOCUS
VG2
1/2 EHT
6516
BYD33D
3516
6517
BYD33D
3517
2517
470P
9503
9504
+32
3538
3528
2529
470n
6529
C43
3529
200k
3530
470k
2530
22n
7530
BC857
3527
1k
IBEAM PROT
2540
RES
2531
22n
27
70V
400V
10μs/DIV
+200
6L13
E12
5L13
E13
4L13
E14
3532
330
6280
1N4148
3L13
E15
3533
330
2L13
E16
1L13
E17
VERT. PROT
3480
100k
B7
5520
Lin.
2526
470p
6480
BZX79/C4V3
7480
BC858C
0V4
3479
68k
3481
3482
22
7481
BC848C
3485
1k
+13
2480
10u
SOUND PROT
G8
0V
2519
2520
560n
9545
FOR PANORAMA
3511
1R2
3534
1R2
3535
1R2
2534
470p
3536
330
2533
2n2
30
17
6534
BYD29F300
5534
27u
2535
1000u
2522
680n
2521
680n
3523
3573
1k5
5521
U15
3555
150
3510
RES
16
4530
4531
+8
3560
6R8
5543
27u
7550
BD944F
6536
BY229F300
3550
1k3
3564
56
2560
RES
3561
820
31
18
2536
470p
3551
150
7551
ON4590
7552
ON4590
3563
100
3562
2k2
2537
1000u
2551
150u
6551
BZX55-B3V9
5510
33u
2509
2n7
2510
1n
15
32
13
2547
3n9
6546
LL4148
3558
10
3547
10
3548
3k9
2546
1u
2548
1u
7543
BC856
6547
1N4148
LOT PROT
3549
120k
33
14
3539
5525
27u
6542
BYD33D
-8
3505
750
2545
RES
2544
100u
5526
IBEAM PROT + SOUND PROT + LOT PROT + VERT. PROT
3570
28
2612
4u7
2611
4u7
3612
3611
2k2
2543
10u
3544
39k
6570
18V
3542
100k
TP66
E/W PROT.
18V
13V
7542
BC857C
7610
BD160F
3540
30k
7540
BC847C
7541
BC847C
0V2
3623
3622
2541
33u
3541
330k
-11
2542
1u
3543
3546
100k
3545
130
PROT
A5
A+D+E+G+Z

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

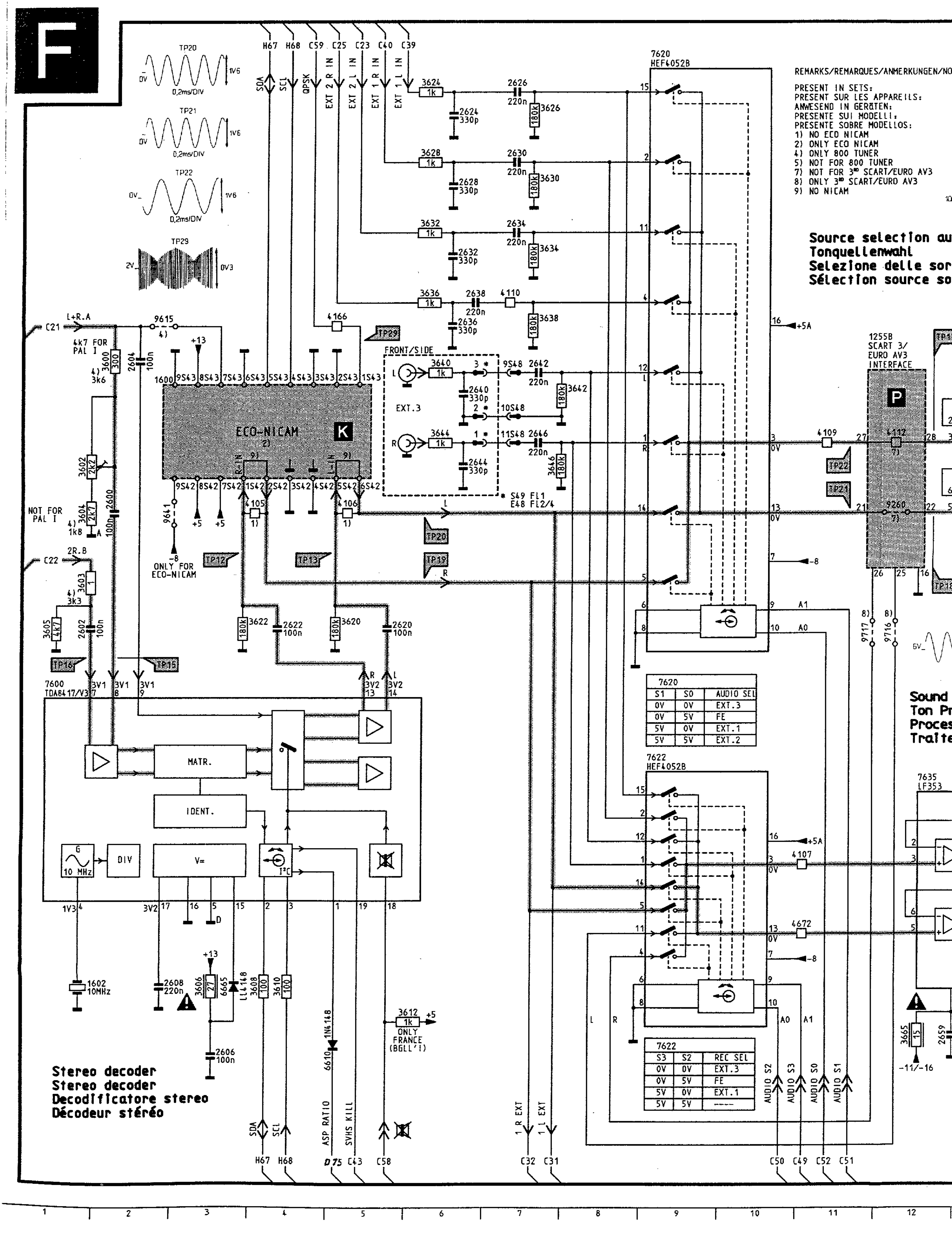
1)

ITEM	28"	32"
2504	820p	2n2
2453	-	100n
2523	9n1	10n
2524	15n	12n
2603	-	100n
2606	47n	27n
3453	-	150
3460	330	270
3508	2k2	2k2
3523	-	15k
3528	1k	1k2
3538	15k	13k
3543	2k2	3k3
3573	-	15k
3612	-	10k
5520	A	B
5521	C	D
5555	E	F

CHASSIS FLx.24

CL46532015/014.BREF
030294

2100	D16	3110	C20	3538	C28	6466	N16		
2101	C17	3111	C20	3539	K28	6480	F29		
2102	C17	3115	D16	3540	M26	6506	I21		
2103	C17	3121	B13	3541	N27	6515	A25		
2104	C16	3122	B13	3542	M29	6516	B25		
2105	C19	3140	A13	3543	N29	6517	C25		
2106	C18	3141	A13	3544	M27	6519	G24		
2108	D15	3142	B15	3545	N31	6520	F24		
2110	D19	3143	C14	3546	N29	6526	I23		
2111	D20	3144	D14	3547	K28	6527	I23		
2112	C16	3145	C15	3548	K29	6529	C29		
2113	C16	3146	C15	3549	K30	6534	H29		
2120	B13	3147	C15	3550	I29	6536	I28		
2140	B17	3148	B19	3551	I29	6542	K29		
2141	B16	3301	C23	3552	H24	6546	K29		
2145	A15	3302	D23	3553	H24	6547	K31		
2401	G 7	3402	D 8	3555	I26	6551	J29		
2402	D 7	3403	D 9	3556	I21	6570	M28		
2403	D 9	3404	D 6	3557	E25	6611	L15		
2404	D 7	3405	D10	3558	K28	6633	N21		
2405	D 7	3406	D10	3560	H30	6650	G 4		
2406	D10	3407	F14	3561	I31	6651	G 3		
2407	L 8	3408	D14	3562	J31	6801	L 6		
2408	H20	3409	H 8	3563	J30	6802	N 5		
2409	G12	3410	I 8	3564	I30	6803	M 4		
2410	I 9	3411	H 9	3570	L28	6804	N 6		
2411	H 9	3412	J 7	3573	H26	7100	D17		
2412	G20	3413	G10	3601	H10	7140	A19		
2413	H19	3414	G 7	3602	N17	7141	D15		
2415	H11	3415	F 6	3603	N18	7142	C14		
2416	D11	3416	J 7	3604	K22	7400	E 7		
2417	D11	3417	C 5	3605	I11	7402	G18		
2418	E13	3418	B 4	3606	N22	7410	J 8		
2419	E13	3419	D14	3607	N22	7417	B 4		
2450	M 8	3420	I 7	3608	M23	7443	D 5		
2451	M 8	3421	D12	3609	K20	7444	D 6		
2452	M11	3422	H 7	3610	K21	7450	L 9		
2453	L12	3424	G 9	3611	M25	7451	L 8		
2455	K10	3426	F 5	3612	L26	7469	O13		
2456	L14	3428	H20	3613	L16	7480	F30		
2457	M13	3429	G18	3614	M25	7481	F31		
2458	O11	3430	J 3	3615	K21	7501	J18		
2459	M11	3438	J 4	3616	K22	7506	H22		
2460	O12	3439	H 8	3617	L20	7512	A24		
2461	M11	3440	F 5	3618	N20	7513	B24		
2480	F31	3441	F 6	3619	M21	7530	D29		
2501	J18	3442	F 6	3620	L22	7540	M27		
2502	J17	3443	D 5	3621	M23	7541	M28		
2503	I19	3444	D 5	3622	N26	7542	M27		
2504	I22	3448	D 5	3623	N25	7543	K30		
2507	I21	3450	K 8	3625	J 8	7550	I30		
2509	J26	3451	K 9	3627	H 6	7551	J30		
2510	J26	3452	L11	3628	H 5	7552	J30		
2511	B26	3453	L12	3629	L17	7601	M20		
2512	A25	3454	J17	3630	M20	7602	M21		
2513	B25	3455	N13	3631	L17	7603	L21		
2517	C25	3456	L13	3632	H10	7608	N24		
2518	C25	3457	M13	3633	N20	7610	M25		
2519	G25	3458	M14	3634	H 5	7616	H 6		
2520	G25	3459	M14	3650	G 5	7618	L16		
2521	H25	3460	M11	3651	G 4	7650	G 4		
2522	H25	3461	M13	3652	G 2	7651	G 3		
2523	H24	3462	M14	3653	H 3	7652	G 3		
2524	I24	3463	M14	3653	O17	7800	J 4		
2525	H25	3464	N13	3654	G 4	7801	N 3		
2526	F25	3465	N16	3655	G 3	7802	K 3		
2527	I25	3466	N16	3656	F 4	9100	B 2		
2529	C28	3467	O12	3800	M 7	9101	A13		
2530	C29	3468	N13	3801	L 7	9102	A14		
2531	D28	3469	O16	3802	M 3	9103	B12		
2533	G30	3470	N14	3803	L 4	9503	D26		
2534	G29	3471	N13	3804	K 4	9504	E26		
2535	H30	3473	N11	3805	D 2	9507	H23		
2536	I28	3479	F30	3806	M 3	9508	J19		
2537	J28	3480	F32	3807	M 6	9537	A24		
2540	D30	3481	F29	3809	M 4	9545	G26		
2541	N26	3482	F30	3810	J 4	9625	I 7		
2542	N28	3484	F 6	3811	M 6	9652	B 6		
2543	M27	3485	F32	4400	K10				
2544	L30	3500	J17	4401	B 5				
2545	L29	3501	F18	4405	F 3				
2546	K29	3502	I19	4508	J19				
2547	K28	3503	I19	4530	I28				
2548	K30	3504	I24	4531	I28				
2551	J29	3505	L28	5110	C20				
2560	I30	3506	H21	5503	I20				
2600	M22	3507	I21	5505	I20				
2601	N18	3508	H17	5506	I20				
2603	I10	3509	F20	5507	I22				
2604	K22	3510	I26	5510	J26				
2605	L23	3511	F28	5511	A26				
2606	I11	3512	A23	5514	C24				
2607	H10	3513	B22	5520	E25				
2609	K20	3514	B24	5521	I26				
2610	L20	3515	A26	5524	I24				
2611	M26	3516	B26	5525	K28				
2612	M26	3517	C26	5526	L25				
2613	L20	3518	G25	5534	H29				
2614	M22	3519	G24	5543	H31				
2615	M25	3520	E24	5555	A27				
2633	N20	3521	E24	5860	D22				
2652	H 3	3523	H26	6100	C19				
2801	L 7	3524	I25	6101	D19				
2805	E 2	3525	H24	6103	D17				
2806	J 5	3526	I18	6104	D16				
2860	D23	3527	C30	6128	B14				
2861	D22	3528	C28	6280	E32				
3100	C15	3529	D28	6403	H19				
3101	D15	3530	C29	6404	G18				
3102	C15	3531	F17	6417	B 5				
3104	D15	3532	E28	6422	H 7				
3105	D19	3533	E28	6440	E 5				
3106	D18	3534	G28	6441	E 5				
3107	C19	3535	H28	6451	N11				
3108	C18	3536	G29	6452	M12				
3109	C18	3537	B25	6465	N16				


F
TP20
1V6
0V
0,2ms/DIV
TP21
TP22
TP29
2V
0V3
H67 H68 C59 C25 C23 C40 C39
SDA
SCL
QPSK
EXT 2 R IN
EXT 2 L IN
EXT 1 R IN
EXT 1 L IN
3624 1k
2624 330p
2626 220n
3626 180k
3628 1k
2628 330p
2630 220n
3630 180k
3632 1k
2632 330p
2634 220n
3634 180k
3636 1k
2636 330p
2638 220n
4110
3638 180k
7620
HEF4052B
C21
L+R.A
9615
4)
4166
4k7 FOR PAL I
3600 300
4) 3k6
2604 100n
+13
1600
9S43 8S43 7S43 6S43 5S43 4S43 3S43 2S43 1S43
ECO-NICAM
2)
K
R IN
L IN
9)
9S42 8S42 7S42 1S42 2S42 3S42 4S42 5S42 6S42
FRONT/SIDE
3640 1k
2640 330p
3644 1k
2644 330p
EXT.3
9S48 2642 220n
3642 180k
10S48
11S48 2646 220n
3646 180k
* S49 FL1
E48 FL2/4
3602 2k2
NOT FOR PAL I
3604 2k7
4) 1k8
2600 100n
9641
+5
+5
-8
ONLY FOR ECO-NICAM
4105 1)
4106 1)
TP12
TP13
TP20
TP19
C22
2R.B
3603 1k
4) 3k3
3605 4k7
2602 100n
3622 180k
2622 100n
3620 180k
2620 100n
TP16
TP15
7600
TDA8417/V3
3V1 3V1 3V1
3V2 3V2
MATR.
IDENT.
G
10 MHz
DIV
V=
I²C
1V3
3V2
1602 10MHz
2608 220n
+13
3606 27
6665 LL4148
3608 100
3610 100
2606 100n
6610 1N4148
3612 1k
+5
ONLY FRANCE (BGLL'I)
ASP RATIO
SVHS KILL
D75 C43 C58
1 R EXT
1 L EXT
C32 C31
16 +5A
1255B
SCART 3/
EURO AV3
INTERFACE
P
4109
4112
7)
9260
7)
TP22
TP21
TP18
A1
A0
9717 8)
9716 8)
6V
7622
HEF4052B
16 +5A
4107
4672
7 -8
7635
LF353
3665 15
2659
-11/-16
AUDIO S2
AUDIO S3
AUDIO S0
AUDIO S1
C50 C49 C52 C51
Sound
Ton Pr
Proces
Traite

REMARKS/REMARQUES/ANMERKUNGEN/NO

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NO ECO NICAM
2) ONLY ECO NICAM
4) ONLY 800 TUNER
5) NOT FOR 800 TUNER
7) NOT FOR 3RD SCART/EURO AV3
8) ONLY 3RD SCART/EURO AV3
9) NO NICAM

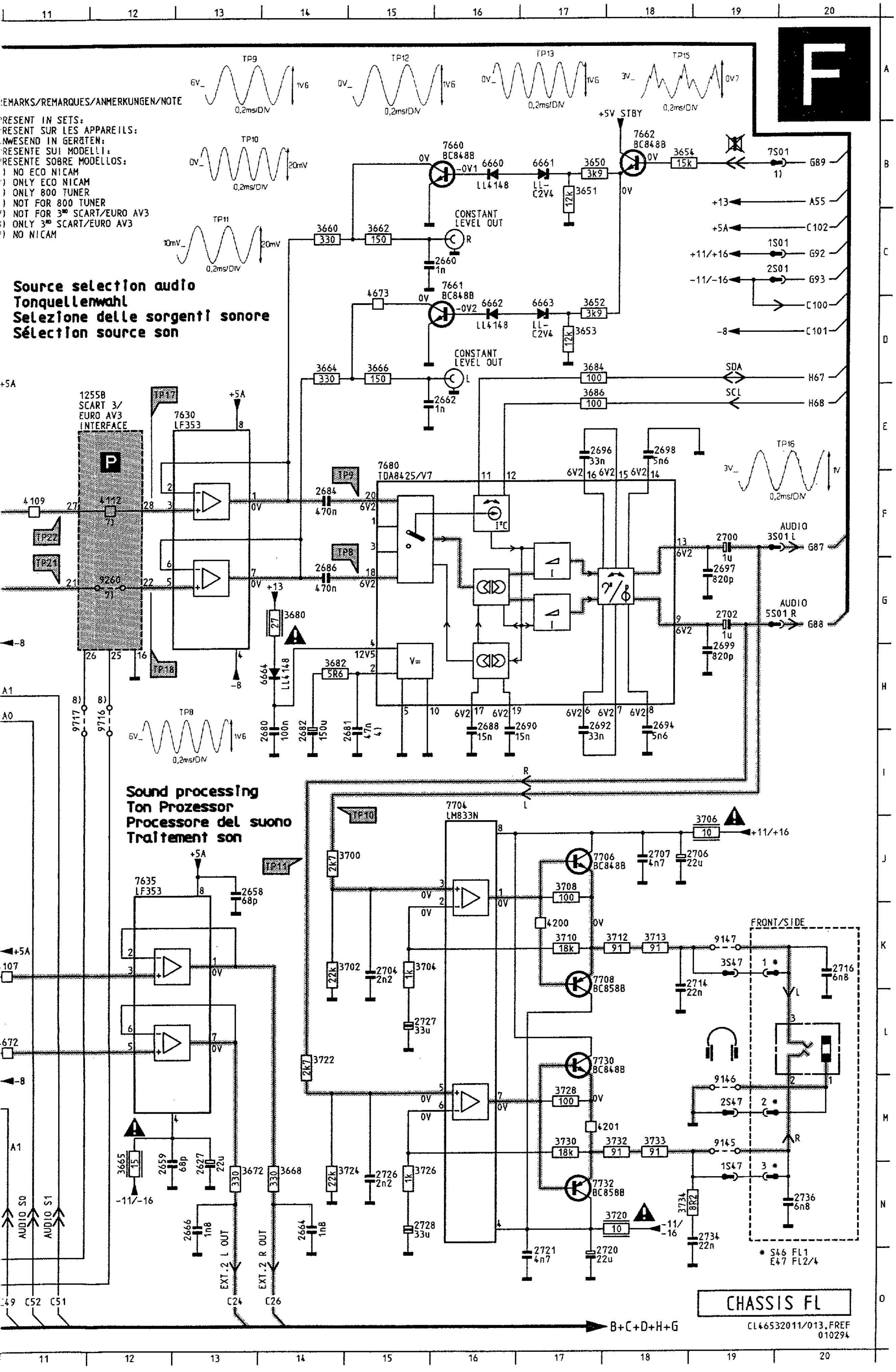
Source selection au
Tonquellenwahl
Selezione delle sor
Sélection source so

7620		
S1	S0	AUDIO SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	EXT.2

7622		
S3	S2	REC SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	----

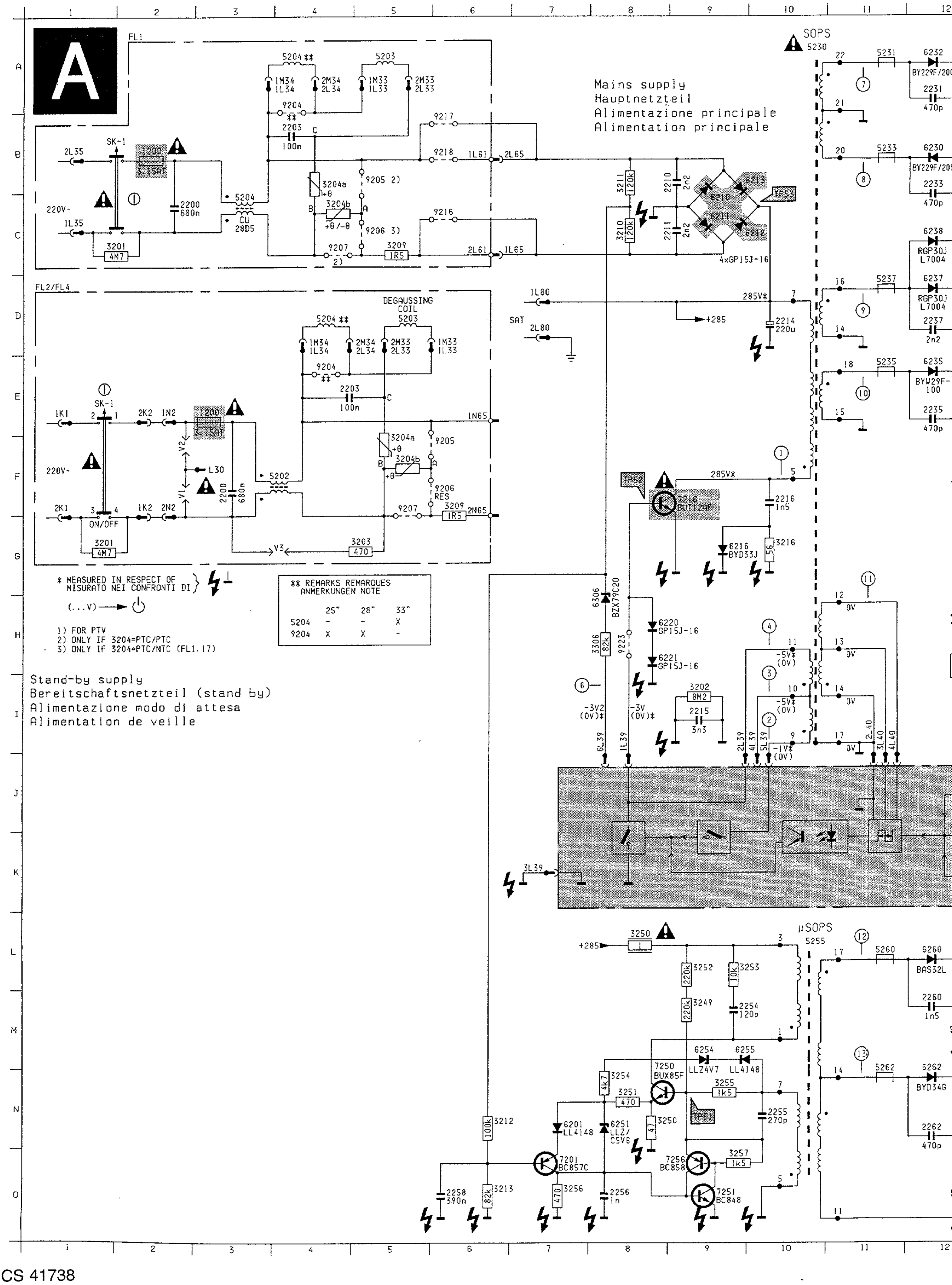
Stereo decoder
Stereo decoder
Decodificatore stereo
Décodeur stéréo

Traitement audio


F
EMARKS/REMARQUES/ANMERKUNGEN/NOTE
RESENT IN SETS:
RESENT SUR LES APPAREILS:
NWESEND IN GERÄTEN:
RESENTE SUI MODELLI:
RESENTE SOBRE MODELLOS:
) NO ECO NICAM
) ONLY ECO NICAM
) ONLY 800 TUNER
) NOT FOR 800 TUNER
) NOT FOR 3RD SCART/EURO AV3
) ONLY 3RD SCART/EURO AV3
) NO NICAM
Source selection audio
Tonquellenwahl
Selezione delle sorgenti sonore
Sélection source son
Sound processing
Ton Prozessor
Processore del suono
Traitement son
TP9
TP10
TP11
TP12
TP13
TP15
TP16
TP8
0,2ms/DIV
CONSTANT LEVEL OUT
+5V STBY
7660 BC848B
7661 BC848B
7662 BC848B
1255B SCART 3/ EURO AV3 INTERFACE
7630 LF353
7635 LF353
7680 TDA8425/V7
7704 LM833N
7706 BC848B
7708 BC858B
7730 BC848B
7732 BC858B
SDA
SCL
AUDIO 3S01 L
AUDIO 5S01 R
FRONT/SIDE
* S46 FL1 E47 FL2/4
EXT.2 L OUT
EXT.2 R OUT
AUDIO S0
AUDIO S1
B+C+D+H+G
CHASSIS FL
CL46532011/013.FREF 010294

1255	E11
1600	E 2
1602	M 1
2600	G 2
2602	H 1
2604	E 2
2606	N 3
2608	M 2
2620	H 5
2622	H 4
2624	B 6
2626	A 7
2627	M13
2628	C 6
2630	B 7
2632	D 6
2634	C 7
2636	D 6
2638	D 6
2640	E 6
2642	E 7
2644	F 6
2646	F 7
2658	J13
2659	M12
2660	C16
2662	E16
2664	N14
2666	N13
2680	H14
2681	H15
2682	H14
2684	F14
2686	G14
2688	H16
2690	H16
2692	H17
2694	H18
2696	E17
2697	G19
2698	E18
2699	H19
2700	F19
2702	G19
2704	K15
2706	J18
2707	J18
2714	K18
2716	K20
2720	O17
2721	O17
2726	N15
2727	L15
2728	N15
2734	N19
2736	N20
3600	E 2
3602	F 1
3603	H 1
3604	G 1
3605	H 1
3606	M 3
3608	M 4
3610	M 4
3612	M 6
3620	H 5
3622	H 3
3624	A 6
3626	B 7
3628	B 6
3630	C 7
3632	C 6
3634	C 7
3636	D 6
3638	D 7
3640	E 6
3642	E 8
3644	F 6
3646	F 7
3650	B17
3651	B17
3652	D17
3653	D17
3654	B18
3660	C14
3662	C15
3664	D14
3665	M12
3666	D15
3668	N14
3672	N13
3680	G14
3682	H14
3684	D17
3686	E17
3700	J14
3702	K14
3704	K15
3706	J19
3708	J17
3710	K17
3712	K18
3713	K18
3720	N18
3722	L14
3724	N14
3726	N15
3728	M17
3730	M17
3732	M18
3733	M18
3734	N18
4105	G 4
4106	G 5
4107	K11
4109	F11
4110	D 7
4112	F12
4166	D 5
4200	K17
4201	M17
4672	L11
4673	C15
6610	N 5
6660	B16
6661	B17
6662	D16
6663	D17
6664	H14
6665	M 3
7600	I 1
7620	A 9
7622	J 9
7630	E12
7635	J12
7660	B16
7661	C16
7662	B18
7680	E15
7704	I16
7706	J17
7708	K17
7730	L17
7732	N17
9145	M19
9146	M19
9147	K19
9260	G12
9615	D 2
9641	G 2
9716	H12
9717	H11

Power supply / Stromversorgung / L'alimentation


A
FL1
FL2/FL4
SOPS 5230
µSOPS 5255
DEGAUSSING COIL 5203
SK-1
ON/OFF
220V~
2L35
1L35
1200 3.15AT
2200 680n
3201 4M7
5204 CU 28D5
5204 ✱✱
5203
1M34 1L34
2M34 2L34
1M33 1L33
2M33 2L33
9204 ✱✱
2203 100n
3204a +θ
3204b +θ/−θ
9205 2)
9206 3)
9207 2)
9209 1R5
9217
9218
9216
1L61
2L65
2L61
1L65
1K1
2K2
1N2
2K1
1K2
2N2
L30
V1
V2
V3
5202
3203 470
1N65
2N65
9206 RES
1L80
SAT
2L80
+285
285V✱
2214 220u
3211 120k
3210 120k
2210 2n2
2211 2n2
6210
6211
6212
6213
4xGP15J-16
TP53
TP52
7216 BUT12AF
2216 1n5
6216 BYD33J
3216 56
6306 BZX79C20
3306 82k
9223
6220 GP15J-16
6221 GP15J-16
-3V2 (0V)✱
-3V (0V)✱
3202 8M2
2215 3n3
-5V✱ (0V)
-1V✱ (0V)
6L39
1L39
2L39
4L39
5L39
2L40
3L40
4L40
3L39
0V
5231
6232 BY229F/200
2231 470p
5233
6230 BY229F/200
2233 470p
6238 RGP30J L7004
5237
6237 RGP30J L7004
2237 2n2
5235
6235 BYW29F-100
2235 470p
3250 1
3252 220k
3253 10k
3249 220k
2254 120p
6254 LLZ4V7
6255 LL4148
7250 BUX85F
3254 4k7
3251 470
3255 1k5
2255 270p
TP51
3250 47
6201 LL4148
6251 LLZ/C5V6
3212 100k
7201 BC857C
7256 BC858
3257 1k5
7251 BC848
2258 390n
3213 82k
3256 470
2256 1n
5260
6260 BAS32L
2260 1n5
5262
6262 BYD34G
2262 470p
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J K L M N O

Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale

* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI

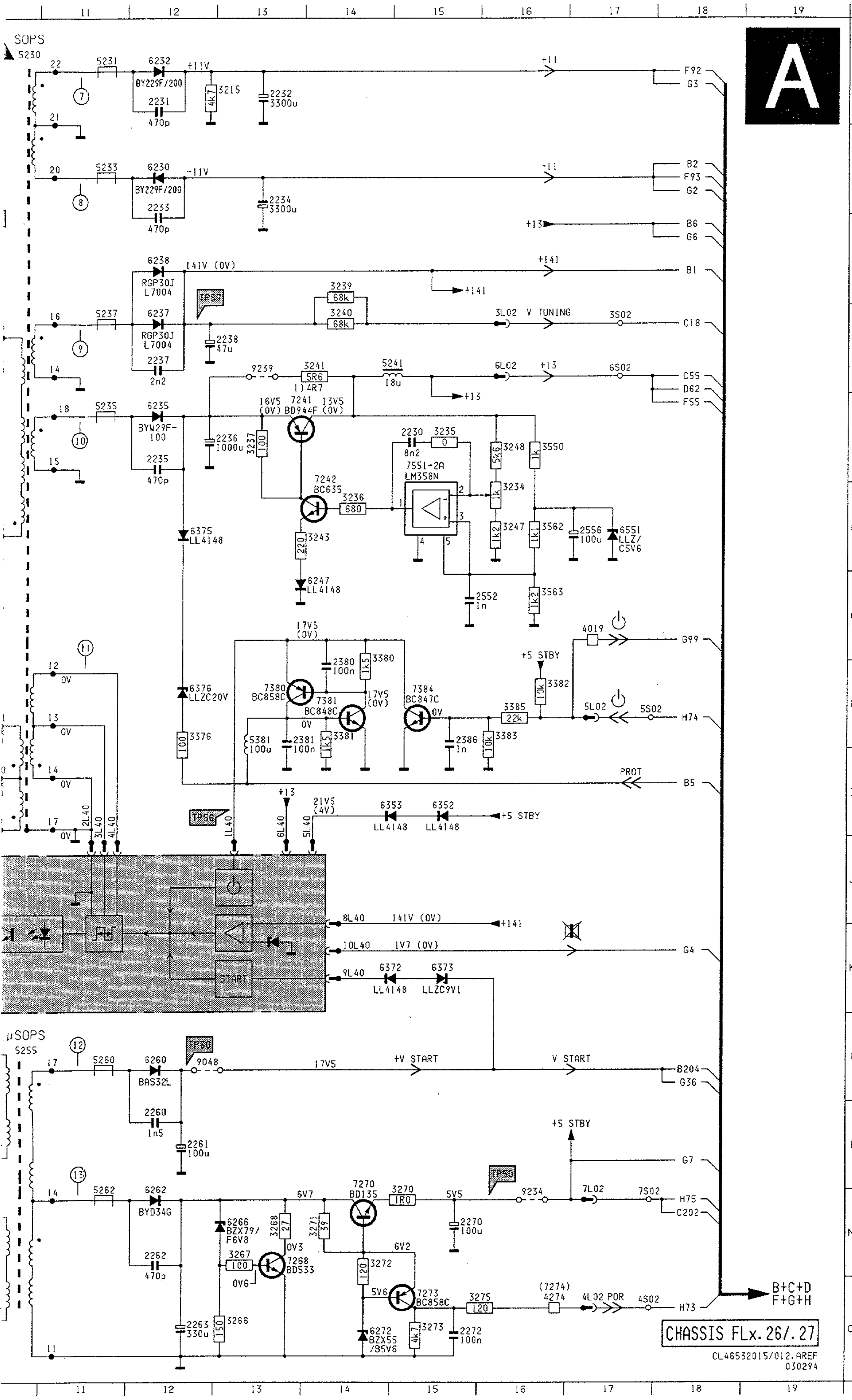
(...V) ⟶ ⏻

1) FOR PTV
2) ONLY IF 3204=PTC/PTC
3) ONLY IF 3204=PTC/NTC (FL1.17)

✱✱ REMARKS REMARQUES ANMERKUNGEN NOTE

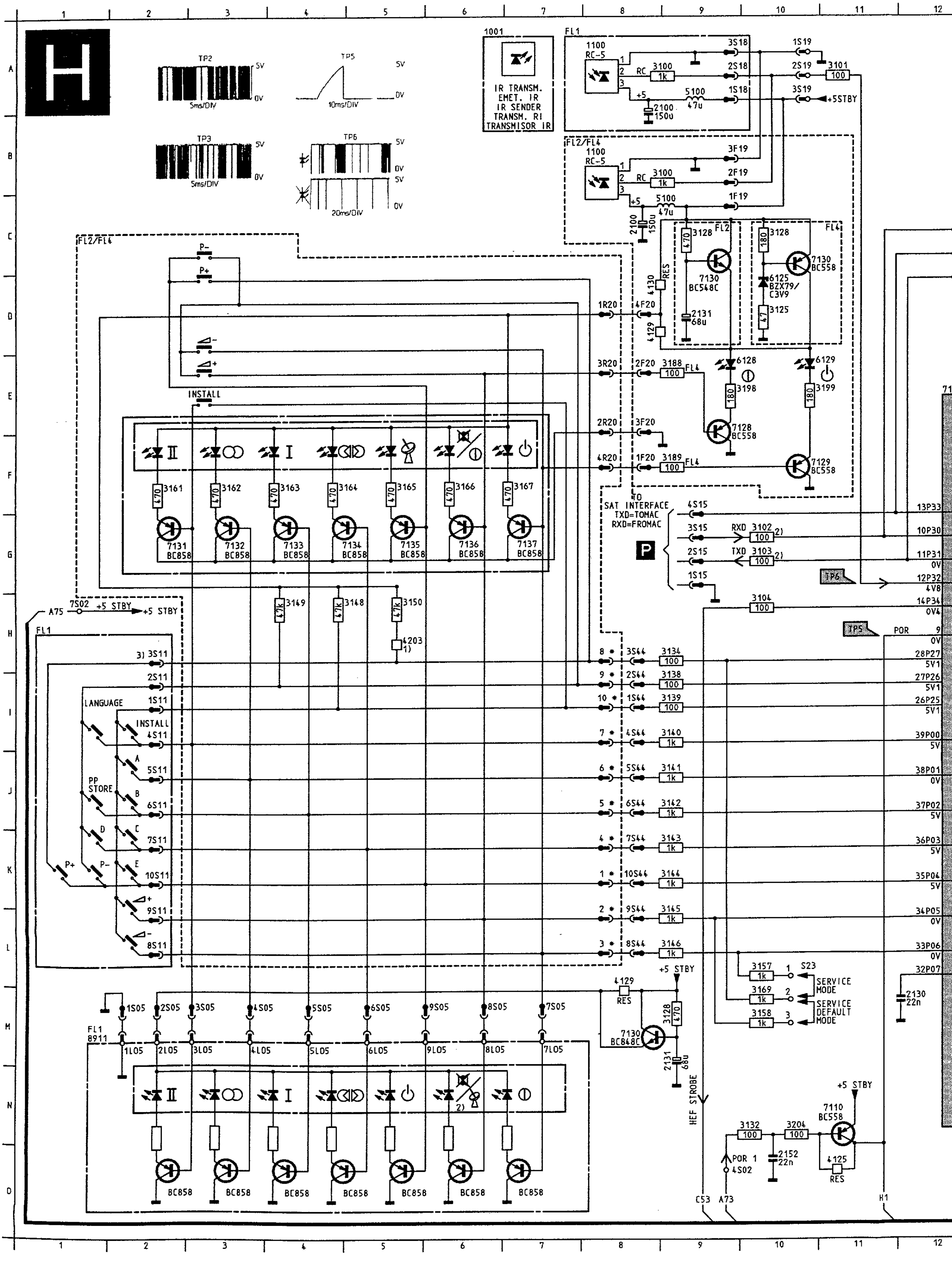
	25"	28"	33"
5204	-	-	X
9204	X	X	-

Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille

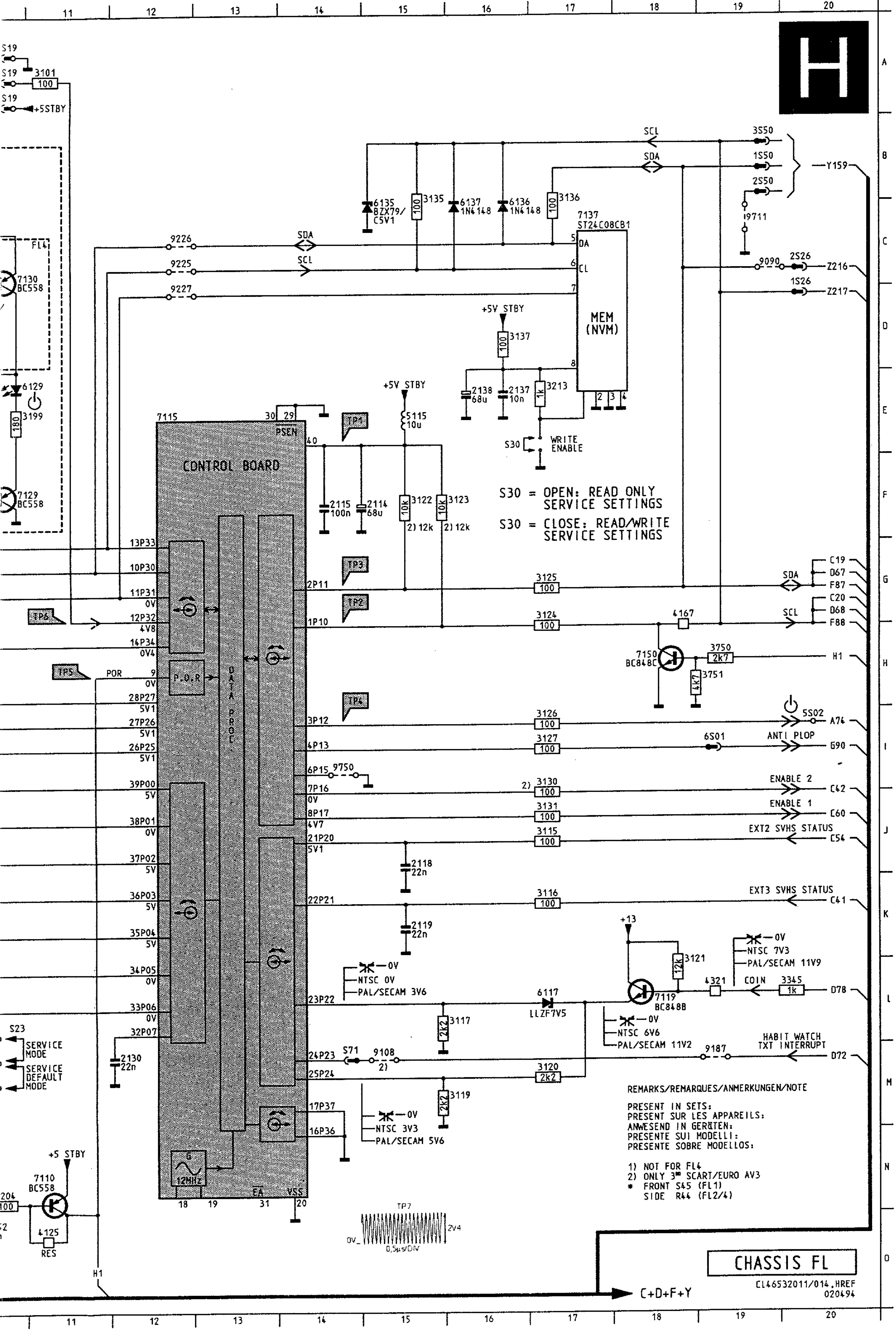

A
SOPS
5230
5231
6232
BY229F/200
2231
470p
+11V
3215
4k7
2232
3300u
+11
F92
G3
5233
6230
BY229F/200
2233
470p
-11V
2234
3300u
-11
B2
F93
G2
+13
B6
G6
6238
RGP30J
L7004
141V (0V)
+141
B1
TP57
3239
68k
3240
68k
5237
6237
RGP30J
L7004
2238
47u
2237
2n2
3L02
V TUNING
3S02
C18
9239
3241
5R6
1) 4R7
5241
18u
6L02
+13
6S02
C55
D62
F55
5235
6235
BYW29F-100
2235
470p
16V5 (0V)
7241 BD944F
13V5 (0V)
2236
1000u
3237
100
2230
8n2
3235
0
3248
5k6
3550
1k
7551-2A
LM358N
7242
BC635
3236
680
3234
1k
3243
220
3247
1k2
3562
1k1
2556
100u
6551
LLZ/C5V6
6247
LL4148
2552
1n
3563
1k2
6375
LL4148
17V5 (0V)
2380
100n
3380
1k5
7380
BC858C
7381
BC848C
17V5 (0V)
7384
BC847C
0V
4019
G99
+5 STBY
3382
10k
3385
22k
5L02
5S02
H74
6376
LLZC20V
5381
100u
2381
100n
3381
1k5
2386
1n
3383
10k
3376
100
PROT
B5
12
13
14
17
0V
2L40
3L40
4L40
TP56
1L40
+13
6L40
5L40
21V5 (4V)
6353
LL4148
6352
LL4148
+5 STBY
8L40
141V (0V)
+141
10L40
1V7 (0V)
G4
START
9L40
6372
LL4148
6373
LLZC9V1
µSOPS
5255
5260
6260
BAS32L
TP60
9048
17V5
+V START
V START
B204
G36
2260
1n5
2261
100u
+5 STBY
G7
5262
6262
BYD34G
6V7
7270
BD135
3270
1R0
5V5
TP50
9234
7L02
7S02
H75
C202
6266
BZX79/F6V8
3268
27
3271
39
2270
100u
3267
100
7268
BD533
0V3
0V6
6V2
3272
120
5V6
7273
BC858C
3275
120
(7274)
4274
4L02 POR
4S02
H73
B+C+D
F+G+H
2262
470p
2263
330u
3266
150
6272
BZX55/B5V6
3273
4k7
2272
100n
11
CHASSIS FLx.26/.27
CL46532015/012.AREF
030294

1200	B 2	6232	A12
1200	E 3	6235	E12
2200	C 2	6237	D12
2200	F 3	6238	C12
2203	B 4	6247	G14
2203	E 4	6251	N 8
2210	B 9	6254	M 9
2211	C 9	6255	M 9
2214	D10	6260	L12
2215	I 9	6262	N12
2216	F10	6266	N13
2230	E15	6272	O14
2231	A12	6306	H 8
2232	A13	6352	I15
2233	B12	6353	I14
2234	B13	6372	K14
2235	E12	6373	K15
2236	E12	6375	F12
2237	D12	6376	H12
2238	D12	6551	F17
2254	M 9	7201	O 7
2255	N10	7216	F 9
2256	O 8	7241	E13
2258	O 6	7242	F14
2260	M12	7250	N 8
2261	M12	7251	O 9
2262	N12	7256	O 9
2263	O12	7268	N13
2270	N15	7270	M14
2272	O15	7273	O15
2380	H14	7274	O16
2381	H13	7380	H13
2386	H15	7381	H14
2552	G15	7384	H15
2556	F17	7551	E15
3201	C11	9048	L12
3201	G 1	9204	A 4
3202	I 9	9204	E 4
3203	G 5	9205	B 5
3204	B 4	9205	F 6
3204	C 4	9206	C 5
3204	E 5	9206	F 6
3204	F 5	9207	C 4
3209	C 5	9207	F 5
3209	F 6	9216	C 6
3210	C 8	9217	B 6
3211	B 8	9218	B 6
3212	N 6	9223	H 8
3213	O 6	9234	N16
3215	A13	9239	D13
3216	G10		
3234	E16		
3235	E15		
3236	F14		
3237	E13		
3239	C14		
3240	D14		
3241	D14		
3243	F14		
3247	F16		
3248	E16		
3249	M 9		
3250	L 8		
3250	N 8		
3251	N 8		
3252	L 9		
3253	L 9		
3254	N 8		
3255	N 9		
3256	O 7		
3257	O 9		
3266	O13		
3267	N13		
3268	N13		
3270	N15		
3271	N14		
3272	N14		
3273	O15		
3275	O16		
3306	H 8		
3376	H12		
3380	G14		
3381	H14		
3382	H16		
3383	H16		
3385	H16		
3550	E16		
3562	F16		
3563	G16		
4274	O16		
4L02	O17		
5202	F 4		
5203	A 5		
5203	D 5		
5204	A 4		
5204	C 3		
5204	D 4		
5230	A10		
5231	A11		
5233	B11		
5235	E11		
5237	D11		
5241	D14		
5255	L10		
5260	L11		
5262	N11		
5381	H13		
6201	N 7		
6210	C 9		
6211	C 9		
6212	C 9		
6213	B 9		
6216	G 9		
6220	H 8		
6221	H 8		
6230	B12		

Controls / Bedienung / Commande


H
TP2
5V
0V
5ms/DIV
TP5
5V
0V
10ms/DIV
TP3
5V
0V
5ms/DIV
TP6
5V
0V
5V
0V
20ms/DIV
1001
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
FL1
1100
RC-5
RC
3100
1k
+5
5100
47u
2100
150u
3S18
2S18
1S18
1S19
2S19
3S19
3101
100
+5STBY
FL2/FL4
3F19
2F19
1F19
3128
470
FL2
7130
BC548C
RES
4130
4129
2131
68u
180
FL4
7130
BC558
6125
BZX79/
C3V9
47
3125
1R20
4F20
3R20
2F20
3188
100
6128
3198
6129
3199
2R20
3F20
7128
BC558
4R20
1F20
3189
7129
BC558
P-
P+
INSTALL
3161
3162
3163
3164
3165
3166
3167
7131
BC858
7132
BC858
7133
BC858
7134
BC858
7135
BC858
7136
BC858
7137
BC858
TO
SAT INTERFACE
TXD=TOMAC
RXD=FROMAC
4S15
3S15
2S15
1S15
RXD 3102 2)
TXD 3103 2)
P
TP6
TP5
3104
100
13P33
10P30
11P31
0V
12P32
4V8
14P34
0V4
POR
9
28P27
5V1
27P26
26P25
39P00
5V
38P01
37P02
36P03
35P04
34P05
33P06
32P07
A75
7S02
+5 STBY
3149
47k
3148
3150
4203
1)
FL1
3) 3S11
2S11
1S11
LANGUAGE
INSTALL
4S11
A
5S11
PP
STORE
B
6S11
D
C
7S11
P+
P-
E
10S11
9S11
8S11
8 * 3S44 3134 100
9 * 2S44 3138 100
10 * 1S44 3139 100
7 * 4S44 3140 1k
6 * 5S44 3141 1k
5 * 6S44 3142 1k
4 * 7S44 3143 1k
1 * 10S44 3144 1k
2 * 9S44 3145 1k
3 * 8S44 3146 1k
3157
1k
1
S23
SERVICE
MODE
3169
2
SERVICE
DEFAULT
MODE
3158
3
2130
22n
4129
RES
+5 STBY
3128
470
7130
BC848C
2131
68u
HEF STROBE
1S05
2S05
3S05
4S05
5S05
6S05
9S05
8S05
7S05
FL1
8911
1L05
2L05
3L05
4L05
5L05
6L05
9L05
8L05
7L05
BC858
2)
+5 STBY
7110
BC558
3132
100
3204
100
2152
22n
POR 1
4S02
4125
RES
C53
A73
H1
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

Controls / Bedienung / Commande


H
11
12
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14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
S19
3101
100
+5STBY
FL4
7130
BC558
6129
3199
180
7129
BC558
9226
9225
9227
SDA
SCL
6135
BZX79/
C5V1
3135
100
6137
1N4148
6136
1N4148
3136
100
7137
ST24C08CB1
DA
CL
MEM
(NVM)
3S50
1S50
2S50
Y159
9711
9090
2S26
Z216
1S26
Z217
+5V STBY
3137
100
2138
68u
2137
10n
3213
1k
S30
WRITE
ENABLE
S30 = OPEN: READ ONLY
SERVICE SETTINGS
S30 = CLOSE: READ/WRITE
SERVICE SETTINGS
7115
PSEN
TP1
5115
10u
CONTROL BOARD
2115
100n
2114
68u
3122
10k
2) 12k
3123
10k
2) 12k
13P33
10P30
11P31
0V
12P32
4V8
14P34
0V4
TP6
TP3
TP2
2P11
1P10
3125
100
3124
100
SDA
C19
D67
F87
C20
D68
F88
SCL
4167
7150
BC848C
3750
2k7
3751
4k7
H1
TP5
POR
P.O.R
DATA PROC
28P27
5V1
27P26
5V1
26P25
5V1
TP4
3P12
4P13
3126
100
3127
100
5S02
A74
6S01
ANTI PLOP
G90
6P15
9750
39P00
5V
7P16
0V
8P17
4V7
2) 3130
100
ENABLE 2
C42
3131
100
ENABLE 1
C60
38P01
0V
21P20
5V1
3115
100
EXT2 SVHS STATUS
C54
2118
22n
37P02
5V
36P03
5V
22P21
3116
100
EXT3 SVHS STATUS
C41
2119
22n
35P04
5V
34P05
0V
+13
3121
12k
NTSC 7V3
PAL/SECAM 11V9
NTSC 0V
PAL/SECAM 3V6
23P22
6117
LLZF7V5
7119
BC848B
4321
COIN
3345
1k
D78
33P06
0V
32P07
3117
2k2
NTSC 6V6
PAL/SECAM 11V2
S23
SERVICE
MODE
SERVICE
DEFAULT
MODE
2130
22n
24P23
S71
9108
2)
9187
HABIT WATCH
TXT INTERRUPT
D72
25P24
3120
2k2
3119
2k2
17P37
16P36
NTSC 3V3
PAL/SECAM 5V6
+5 STBY
7110
BC558
4125
RES
12MHz
EA
VSS
18
19
31
20
TP7
2V4
0V
0,5μs/DIV
C+D+F+Y

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

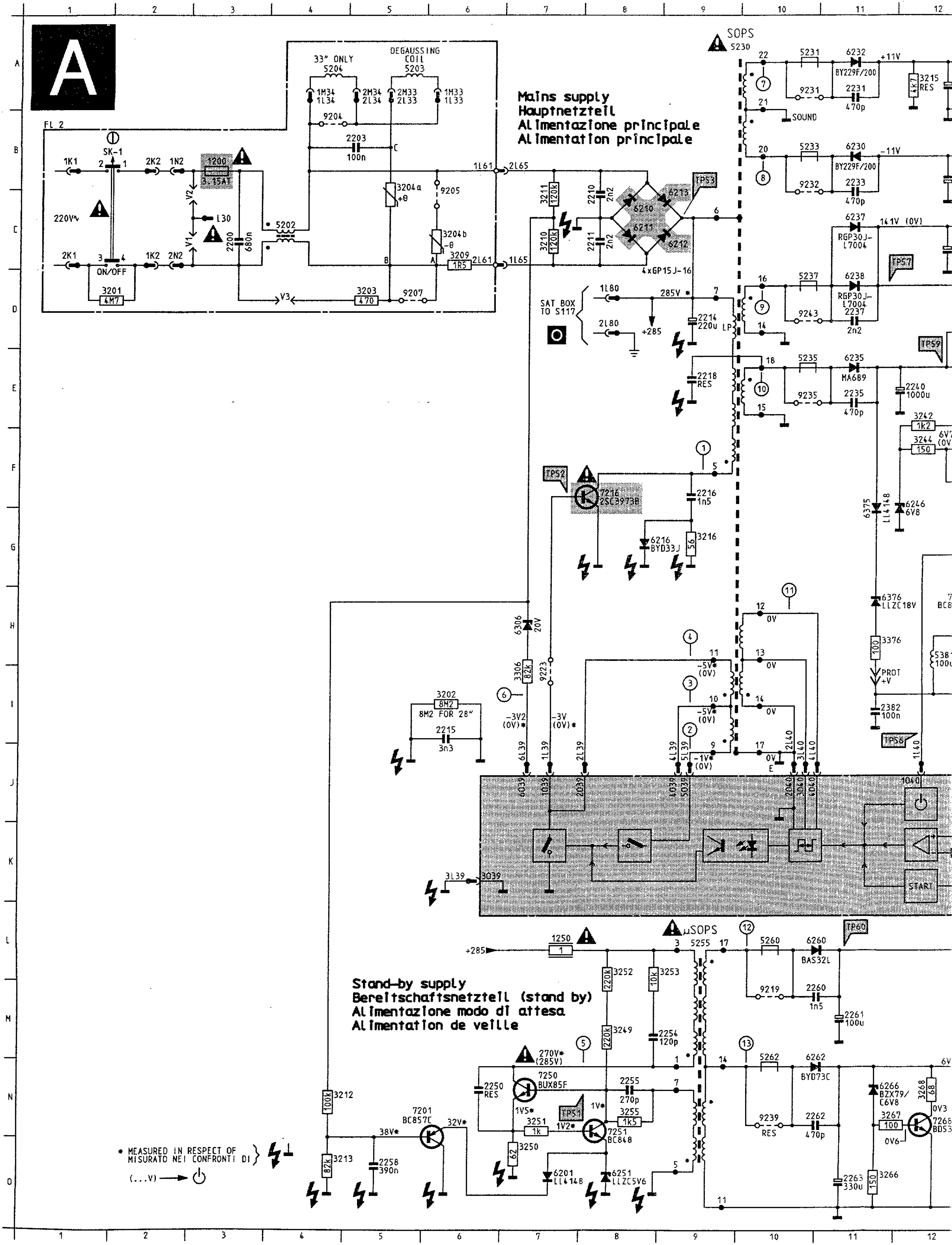
1) NOT FOR FL4
2) ONLY 3RD SCART/EURO AV3
* FRONT S45 (FL1)
SIDE R44 (FL2/4)

CHASSIS FL

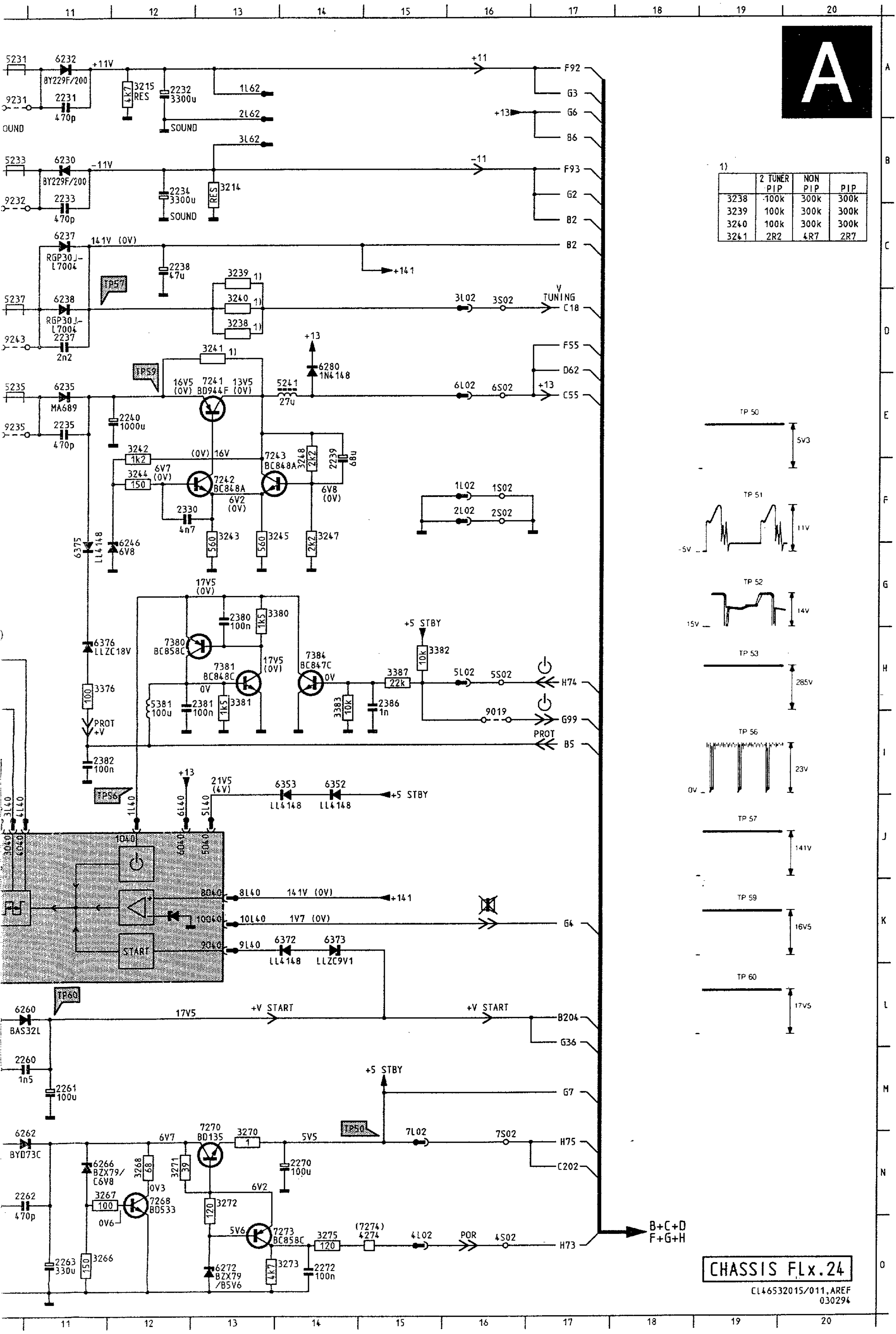
CL46532011/014.HREF
020494

S23	L10	9750	I14
S30	E16		
1001	A 6		
1100	A 8		
1100	B 8		
2100	B 8		
2100	C 8		
2114	F15		
2115	F14		
2118	J15		
2119	K15		
2130	M12		
2131	M 9		
2131	D 9		
2137	E16		
2138	E16		
2152	O10		
3100	A 9		
3100	B 9		
3101	A11		
3102	G10		
3103	G10		
3104	H10		
3115	J17		
3116	K17		
3117	L16		
3119	M16		
3120	M17		
3121	K18		
3122	F15		
3123	F16		
3124	G17		
3125	D10		
3125	G17		
3126	I17		
3127	I17		
3128	M 9		
3128	C 9		
3128	C10		
3130	I17		
3131	J17		
3132	N10		
3134	H 9		
3135	B15		
3136	B17		
3137	D16		
3138	I 9		
3139	I 9		
3140	I 9		
3141	J 9		
3142	J 9		
3143	K 9		
3144	K 9		
3145	L 9		
3146	L 9		
3148	H 4		
3149	H 4		
3150	H 5		
3157	L10		
3158	M10		
3161	F 2		
3162	F 3		
3163	F 4		
3164	F 4		
3165	F 5		
3166	F 6		
3167	F 7		
3169	M10		
3188	E 9		
3189	F 9		
3198	E 9		
3199	E10		
3204	N10		
3213	E17		
3345	L20		
3750	H19		
3751	H19		
4125	O11		
4129	L 8		
4129	D 8		
4130	D 8		
4167	G18		
4203	H 5		
4321	L19		
5100	A 9		
5100	C 9		
5115	E15		
6117	L17		
6125	D10		
6128	E 9		
6129	E10		
6135	C15		
6136	C16		
6137	C16		
7110	N11		
7115	E12		
7119	L18		
7128	F 9		
7129	F10		
7130	M 8		
7130	D 9		
7130	C10		
7131	G 2		
7132	G 3		
7133	G 4		
7134	G 4		
7135	G 5		
7136	G 6		
7137	G 7		
7137	C17		
7150	H18		
8911	M 1		
9090	C19		
9108	M15		
9187	M19		
9711	C19		

Power supply / Stromversorgung / L'alimentation


A
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
FL 2
SK-1
1K1
2K2
1N2
1200
3.15AT
220V∿
ON/OFF
2K1
1K2
2N2
3201
4M7
L30
V1
V2
V3
2200
680n
5202
33" ONLY
5204
DEGAUSSING COIL
5203
1M34
1L34
2M34
2L34
2M33
2L33
1M33
1L33
9204
2203
100n
3204a
+θ
3204b
-θ
9205
3209
1R5
3203
470
9207
1L61
2L65
2L61
1L65
3211
120k
3210
120k
2210
2n2
2211
2n2
6210
6211
6212
6213
TP53
4xGP15J-16
SAT BOX TO S117
1L80
2L80
285V
+285
2214
220u
LP
2218
RES
TP52
7216
2SC3973B
2216
1n5
6216
BYD33J
3216
56
SOPS
5230
5231
6232
BY229F/200
+11V
9231
2231
470p
SOUND
3215
4K7
RES
5233
6230
BY229F/200
-11V
9232
2233
470p
6237
RGP30J-L7004
141V (0V)
TP57
5237
6238
RGP30J-L7004
9243
2237
2n2
TP59
5235
6235
MA689
9235
2235
470p
2240
1000u
3242
1k2
3244
150
6V
6375
LL4148
6246
6V8
6376
LLZC18V
3376
100
PROT
+V
2382
100n
TP56
5381
100
BC8
6306
20V
3306
82k
9223
3202
8M2
8M2 FOR 28"
2215
3n3
-3V2
(0V)*
-3V
(0V)*
-5V*
(0V)
-1V*
(0V)
0V
E
6L39
1L39
2L39
4L39
5L39
2L40
3L40
4L40
1L40
6039
1039
2039
1039
5039
2040
3040
4040
1040
3L39
3039
START
3212
100k
3213
82k
2258
390n
7201
BC857C
38V*
32V*
μSOPS
1250
1
5255
5260
6260
BAS32L
TP60
9219
2260
1n5
2261
100u
3252
220k
3253
10k
3249
220k
2254
120p
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
270V*
(285V)
2250
RES
7250
BUX85F
2255
270p
3255
1k5
1V5*
TP51
1V*
3251
1k
1V2*
7251
BC848
3250
62
6201
LL4148
6251
LLZC5V6
5262
6262
BYD73C
9239
RES
2262
470p
2263
330u
6266
BZX79/C6V8
3268
68
3267
100
7268
BD5
0V3
0V6
3266
150
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V)

FLx.24 (16:9)


11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
A
5231
6232
BY229F/200
+11V
9231
2231
470p
OUND
3215
4K7
RES
2232
3300u
SOUND
1L62
2L62
3L62
+11
F92
G3
+13
G6
B6
5233
6230
BY229F/200
-11V
9232
2233
470p
2234
3300u
SOUND
3214
RES
-11
F93
G2
B2
6237
RGP30J-L7004
141V (0V)
2238
47u
B2
+141
TP57
5237
6238
RGP30J-L7004
9243
2237
2n2
3239 1)
3240 1)
3238 1)
3L02
3S02
V TUNING
C18
3241 1)
+13
6280
1N4148
F55
D62
TP59
5235
6235
MA689
9235
2235
470p
2240
1000u
16V5 (0V)
7241 BD944F
13V5 (0V)
5241
27u
6L02
6S02
+13
C55
3242
1k2
(0V) 16V
7243
BC848A
3248
2K2
2239
68u
6V7 (0V)
3244
150
7242
BC848A
6V2 (0V)
6V8 (0V)
2330
4n7
3243
560
3245
560
3247
2K2
1L02
1S02
2L02
2S02
6375
LL4148
6246
6V8
17V5 (0V)
2380
100n
3380
1K5
6376
LLZC18V
7380
BC858C
7381
BC848C
17V5 (0V)
7384
BC847C
0V
+5 STBY
3382
10K
3387
22K
5L02
5S02
H74
3376
100
5381
100u
0V
2381
100n
3381
1K5
3383
10K
2386
1n
9019
G99
PROT
+V
PROT
B5
2382
100n
TP56
+13
21V5 (4V)
6353
LL4148
6352
LL4148
+5 STBY
3L40
4L40
1L40
6L40
5L40
3040
4040
1040
6040
5040
8040
8L40
141V (0V)
+141
10040
10L40
1V7 (0V)
G4
9040
9L40
6372
LL4148
6373
LLZC9V1
START
TP60
6260
BAS32L
17V5
+V START
+V START
B204
G36
2260
1n5
2261
100u
+5 STBY
G7
7270
BD135
3270
1
TP50
6262
BYD73C
6V7
5V5
7L02
7S02
H75
6266
BZX79/C6V8
3268
68
3271
39
2270
100u
0V3
C202
6V2
2262
470p
3267
100
7268
BD533
3272
120
0V6
5V6
7273
BC858C
3275
120
(7274)
4274
4L02
POR
4S02
H73
B+C+D
F+G+H
6272
BZX79/B5V6
3273
4K7
2272
100n
2263
330u
3266
150
TP 50
5V3
TP 51
11V
-5V
TP 52
14V
15V
TP 53
285V
TP 56
23V
0V
TP 57
141V
TP 59
16V5
TP 60
17V5

1)

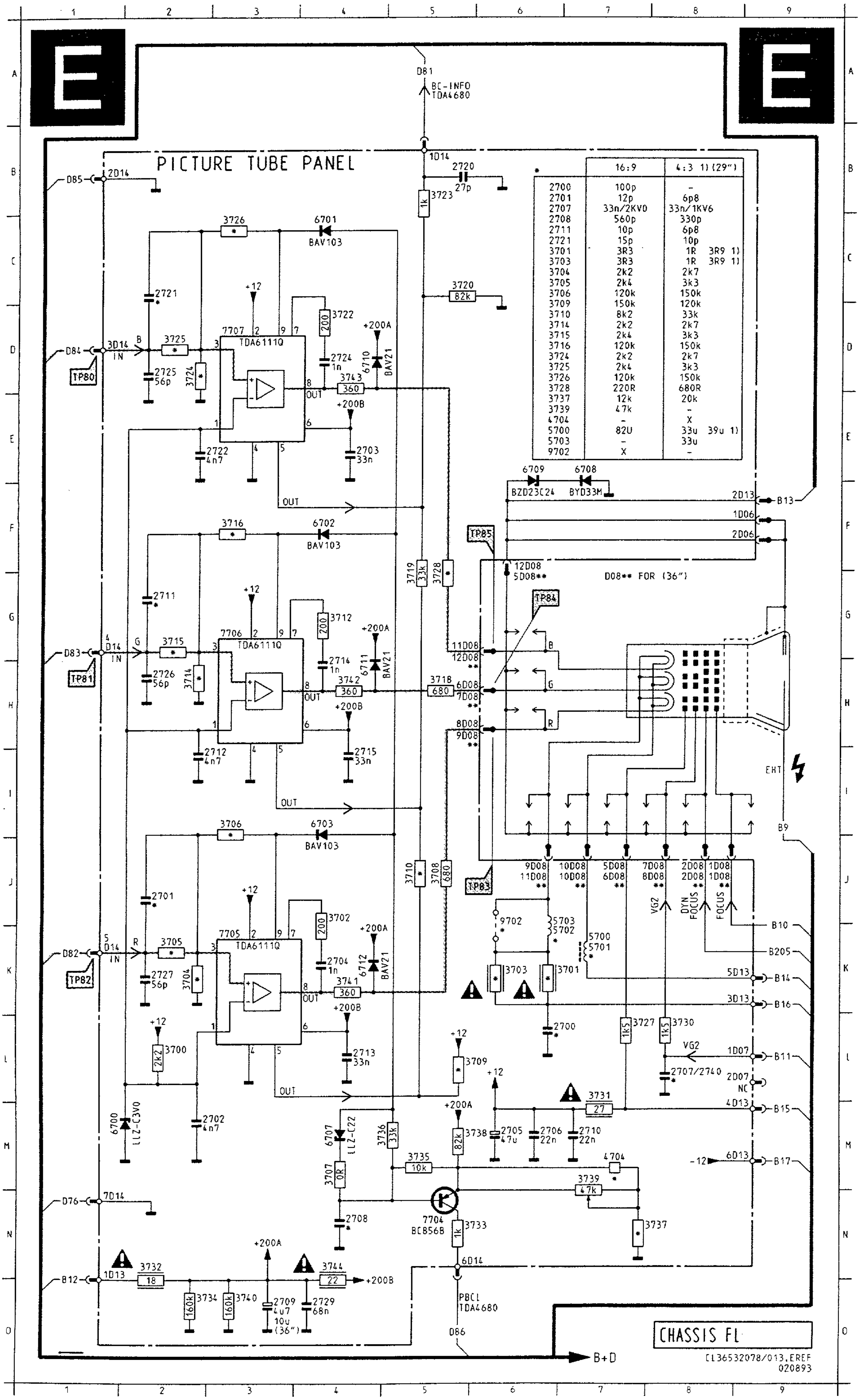
	2 TUNER PIP	NON PIP	PIP
3238	-100k	300k	300k
3239	100k	300k	300k
3240	100k	300k	300k
3241	2R2	4R7	2R7

CHASSIS FLx.24

CL46532015/011.AREF
030294

(727	015	6262	N11
1200	B 3	6266	N11
1200	B 3	6272	013
1250	L 7	6280	D14
2200	C 3	6306	H 7
2200	C 3	6352	I 14
2203	B 5	6353	I 14
2203	B 5	6372	K14
2210	C 8	6373	K14
2211	C 8	6375	G11
2214	D 9	6376	H11
2215	I 6	7201	N 6
2216	F 9	7216	F 8
2218	E 9	7241	E13
2231	A11	7242	F13
2232	A12	7243	F13
2233	B11	7250	N 7
2234	B12	7251	N 8
2235	E11	7268	N12
2237	D11	7270	M13
2238	C12	7273	013
2239	E14	7380	H12
2240	E12	7381	H13
2250	N 6	7384	H14
2254	M 9	9019	I 16
2255	N 8	9204	B 4
2258	0 5	9205	C 6
2260	M11	9205	C 6
2261	M11	9207	C 5
2262	N11	9207	D 5
2263	011	9218	B 5
2270	N14	9219	M10
2272	014	9223	I 7
2330	F12	9231	A10
2380	G13	9232	B10
2381	H12	9235	E10
2382	I 11	9239	N10
2386	H15	9243	D10
3201	D 1		
3201	D 1		
3202	I 6		
3203	D 5		
3204	B 5		
3204	C 5		
3204	B 5		
3204	C 6		
3209	C 6		
3209	C 6		
3210	C 7		
3211	C 7		
3212	N 4		
3213	0 4		
3214	B13		
3215	A12		
3216	G 9		
3238	D13		
3239	C13		
3240	D13		
3241	D13		
3242	E12		
3243	F13		
3244	F12		
3245	F13		
3247	F14		
3248	E14		
3249	M 8		
3250	0 7		
3251	N 7		
3252	L 8		
3253	L 9		
3255	N 8		
3266	011		
3267	N11		
3268	N12		
3270	N13		
3271	N12		
3272	N13		
3273	014		
3275	014		
3306	I 7		
3376	H11		
3380	G13		
3381	H13		
3382	H15		
3383	H14		
3387	H15		
5202	C 4		
5203	A 5		
5203	A 5		
5204	C 4		
5204	A 4		
5204	A 4		
5230	A 9		
5231	A10		
5233	B10		
5235	E10		
5237	D10		
5241	E14		
5255	L 9		
5260	L10		
5262	N10		
5381	H12		
6201	0 7		
6210	C 8		
6211	C 8		
6212	C 9		
6213	C 9		
6216	G 8		
6230	B11		
6232	A11		
6235	E11		
6237	C11		
6238	D11		
6246	G12		
6251	0 8		
6260	L11		

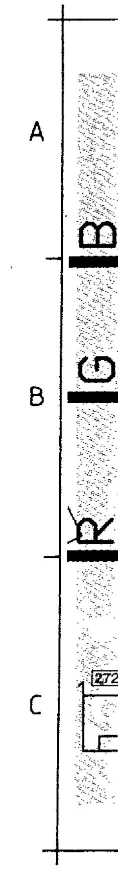
Picture tube panel / Bildröhren Platte /


E
PICTURE TUBE PANEL
D81
BC-INFO TDA4680
1D14
2720 27p
3723 1k
D85
2D14
3726 *
6701 BAV103
2721 *
+12
3720 82k
3722 200
+200A
7707 TDA6111Q
D84
3D14 IN
B
3725 *
2725 56p
3724 *
2724 1n
6710 BAV21
3743 360
OUT
+200B
2722 4n7
2703 33n
TP80
OUT
6709 BZD23C24
6708 BYD33M
2D13
B13
1D06
2D06
3716 *
6702 BAV103
TP85
2711 *
3719 33k
3728 *
12D08 5D08**
D08** FOR (36")
TP84
3712 200
7706 TDA6111Q
D83
4 D14 IN
G
3715 *
2726 56p
3714 *
2714 1n
6711 BAV21
3742 360
3718 680
11D08 12D08 **
6D08 7D08 **
8D08 9D08 **
B G R
TP81
2712 4n7
2715 33n
EHT
OUT
B9
3706 *
6703 BAV103
3710 *
3708 680
TP83
9D08 11D08 **
10D08 10D08 **
5D08 6D08 **
7D08 8D08 **
2D08 2D08 **
1D08 1D08 **
VG2
DYN FOCUS
FOCUS
2701 *
3702 200
7705 TDA6111Q
D82
5 D14 IN
R
3705 *
2727 56p
3704 *
2704 1n
6712 BAV21
3741 360
9702 *
5703 5702 *
5700 5701 *
B10
B205
5D13 B14
3703 * 3701 *
3D13 B16
TP82
+12
3700 2k2
2713 33n
2700 *
3727 1k5
3730 1k5
VG2
1D07 B11
2707/2740 *
2D07 NC
6700 LLZ-C3V0
2702 4n7
OUT
+12
3709 *
3731 27
4D13 B15
6707 LLZ-C22
3736 33k
+200A
3738 82k
2705 47u
2706 22n
2710 22n
-12
6D13 B17
D76
7D14
3707 0R
3735 10k
4704 *
3739 47k
7704 BC856B
3733 1k
3737 *
2708 *
B12
1D13
3732 18
+200A
3744 22
+200B
3734 160k
3740 160k
2709 4u7 10u (36")
2729 68n
6D14
PBCL TDA4680
D86
B+D
CHASSIS FL
CL36532078/013.EREF 020893
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9

*	16:9	4:3 1) (29")
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R 3R9 1)
3703	3R3	1R 3R9 1)
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	-	X
5700	82U	33u 39u 1)
5703	-	33u
9702	X	-

2700	K 6
2701	J 2
2702	M 2
2703	L 4
2704	K 4
2705	M 6
2706	M 6
2707	L 8
2708	N 4
2709	E 7
2710	M 7
2711	G 2
2712	I 2
2713	E 4
2714	H 4
2715	I 4
2720	B 5
2721	C 2
2722	E 2
2724	D 4
2725	D 2
2726	H 2
2727	K 2
2729	E 6
3700	L 2
3701	K 6
3702	J 4
3703	K 6
3704	K 2
3705	K 2
3706	I 3
3707	M 4
3708	J 5
3709	L 5
3710	J 5
3712	G 4
3714	H 2
3715	G 2
3716	F 3
3718	H 5
3719	G 5
3720	C 5
3722	D 4
3723	B 5
3724	D 2
3726	C 3
3727	K 7
3728	G 5
3730	K 8
3731	L 7
3732	D 8
3733	N 5
3734	E 8
3735	M 5
3736	M 5
3737	N 6
3738	M 5
3739	M 6
3740	E 7
3741	K 4
3742	H 4
3743	D 4
3744	D 6
4709	I 2
5700	J 7
6700	M 1
6701	C 4
6702	F 4
6703	I 4
6707	M 4
6708	E 7
6709	E 6
6710	D 4
6711	H 4
6712	K 4
7704	N 5
7705	K 3
7706	G 3
7707	D 3

Pla


A
B
C
B
IG
IR
272

Platines Tube-image

K 6
J 2
M 2
L 4
K 4
M 6
M 6
L 8
N 4
E 7
M 7
G 2
I 2
E 4
H 4
I 4
B 5
C 2
E 2
D 4
D 2
H 2
K 2
E 6
L 2
K 6
J 4
K 6
K 2
K 2
I 3
M 4
J 5
L 5
J 5
G 4
H 2
G 2
F 3
H 5
G 5
C 5
D 4
B 5
D 2
C 3
K 7
G 5
K 8
L 7
D 8
N 5
E 8
M 5
M 5
N 6
M 5
M 6
E 7
K 4
H 4
D 4
D 6
I 2
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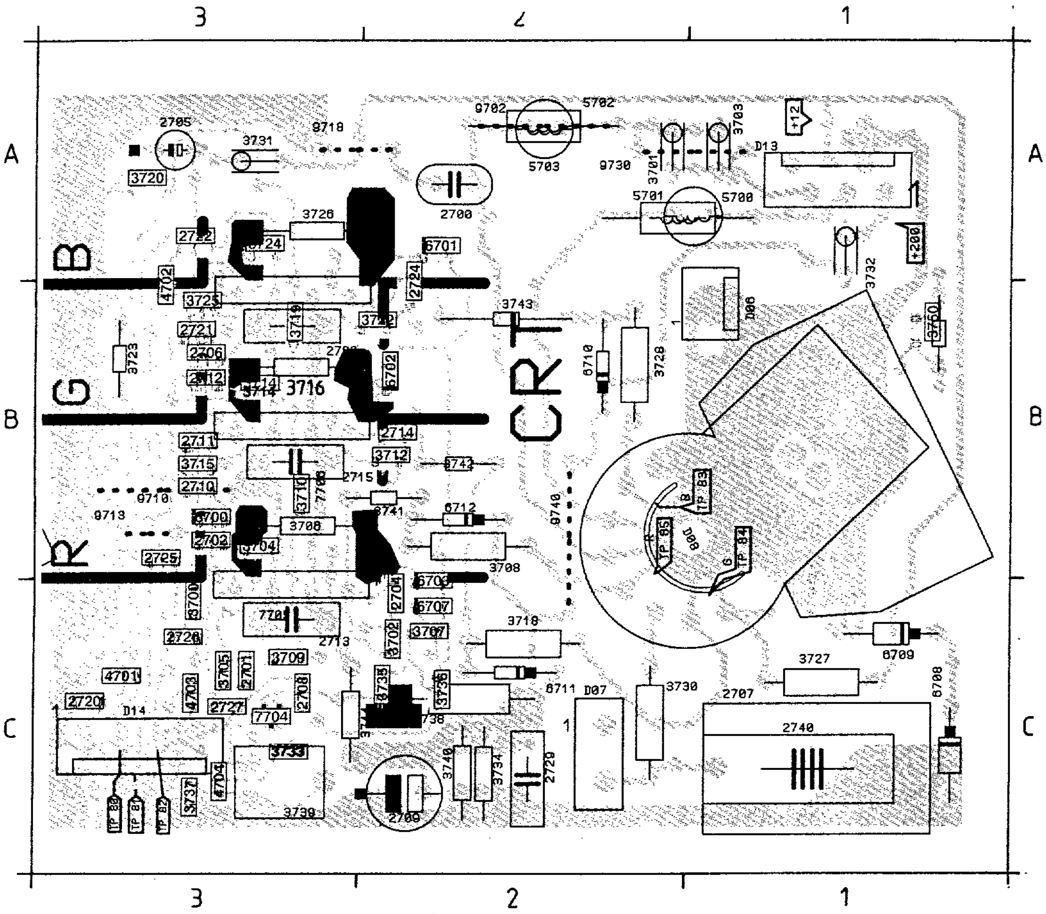
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B
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CRT
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R
2705
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3701
3703
D13
+12
2700
5701
5700
3726
2722
2724
6701
4702
3725
2784
3743
3732
+200
3719
3722
2721
3723
2706
2712
3714
3716
6702
6710
3728
D06
3750
2711
2714
3715
3712
3742
2710
2715
9710
3741
6712
9740
D08
TP 83
TP 85
TP 84
9713
3700
2703
3704
3708
2725
3708
6700
6707
3700
7701
2713
3718
3707
2726
2704
3702
6709
3727
4701
3705
2701
3709
2708
3735
3736
6711
D07
3730
2707
6708
2720
D14
4703
2727
7704
2740
3733
3738
3740
3734
2729
4704
3737
TP 80
TP 81
TP 82
3739
2709

D06	B1	3708	B2	5701	A2
D07	C2	3709	C3	5702	A2
D08	B1	3710	B3	5703	A2
D13	A1	3712	B2	6700	B3
D14	C3	3714	B3	6701	A2
2700	A2	3715	B3	6702	B2
2701	C3	3716	B3	6703	C2
2702	B3	3718	C2	6707	C2
2703	B3	3719	B3	6708	C1
2704	C2	3720	A3	6709	C1
2705	A3	3722	B2	6710	B2
2706	B3	3723	B3	6711	C2
2707	C1	3724	A3	6712	B2
2708	C3	3725	B3	7704	C3
2709	C2	3726	A3	7705	C3
2710	B3	3727	C1	7706	B3
2711	B3	3728	B2	7707	B3
2712	B3	3730	C2	9702	A2
2713	C3	3731	A3	9710	B3
2714	B2	3732	A1	9713	B3
2715	B3	3733	C3	9718	A3
2720	C3	3734	C2	9730	A1
2721	B3	3735	C2	9740	B2
2722	A3	3736	C2		
2724	B2	3738	C2		
2725	B3	3739	C3		
2726	C3	3740	C2		
2727	C3	3741	B2		
2729	C2	3742	B2		
2740	C1	3743	B2		
3700	C3	3744	C3		
3701	A2	3750	B1		
3702	C2	3751	B1		
3703	A1	4701	C3		
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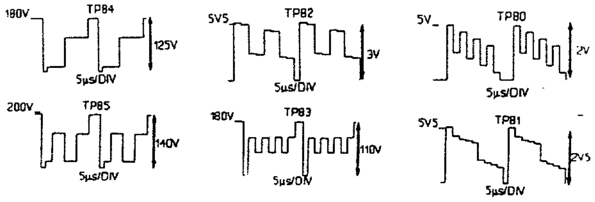
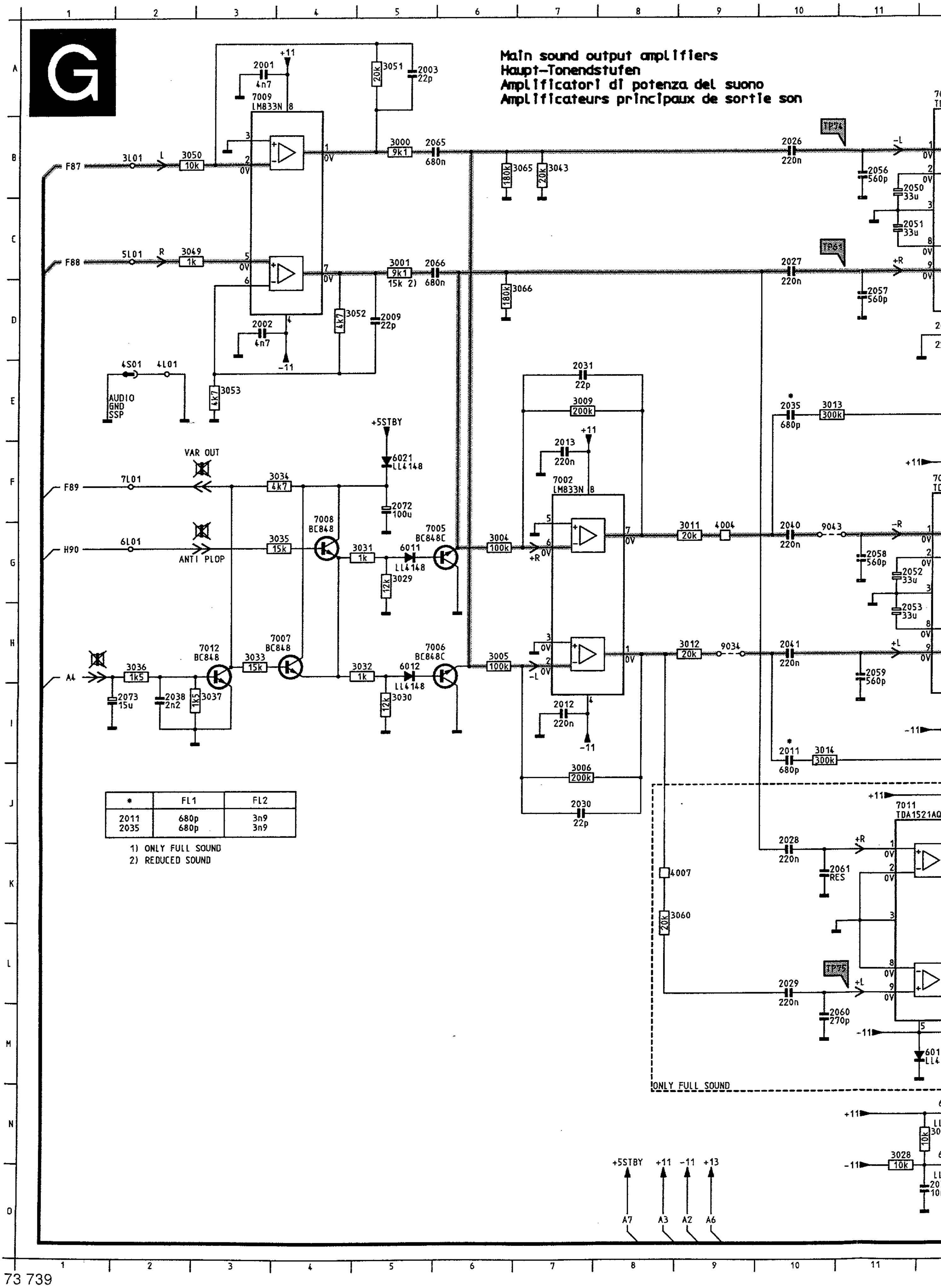
3705	C3	4703	C3		
3706	B3	4704	C3		
3707	C2	5700	A1		



G

Main sound output amplifiers
Haupt-Tonendstufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son


1
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3
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5
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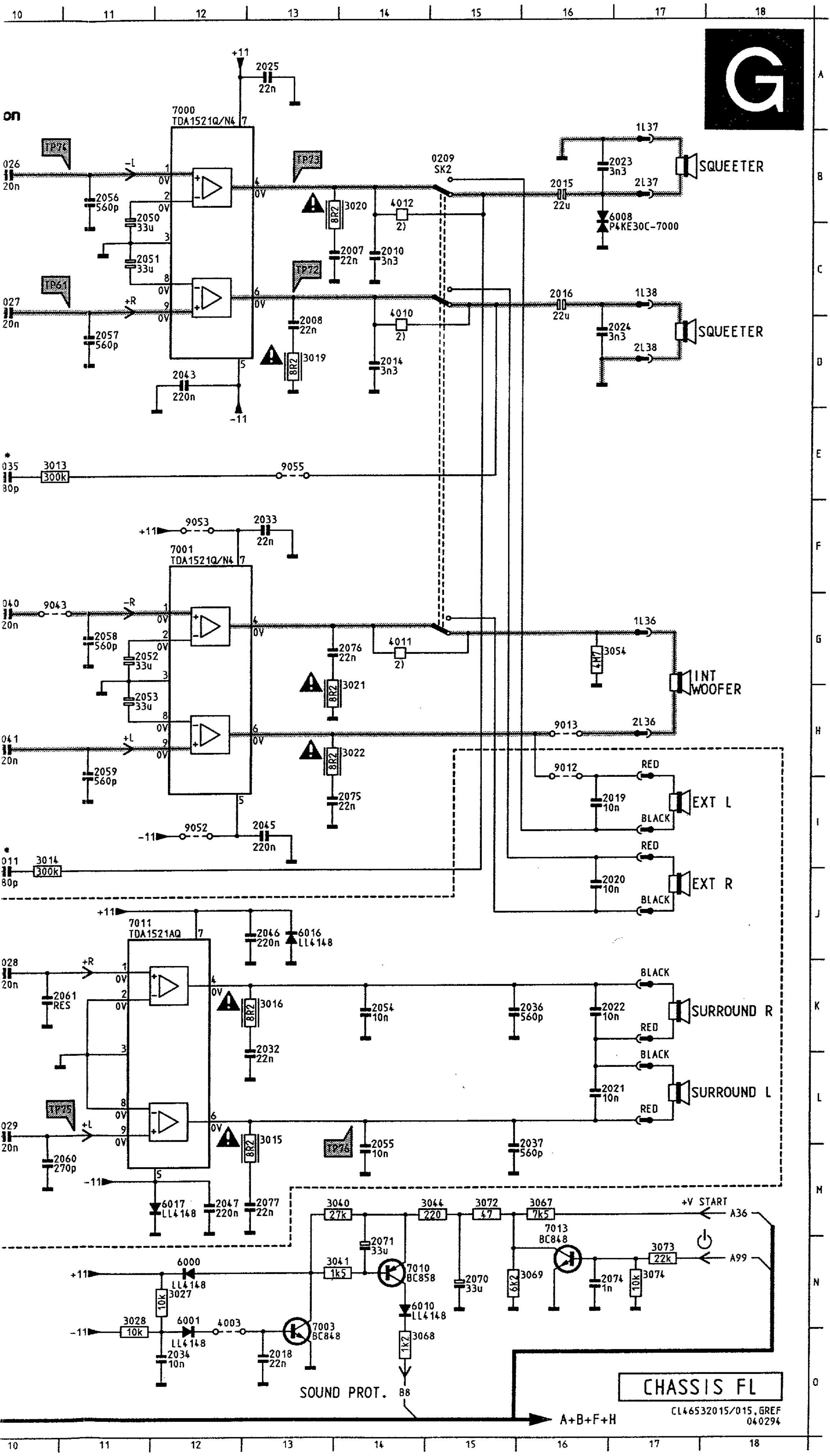
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
F87
3L01
L
3050
10k
2001
4n7
+11
7009
LM833N
8
3
2
0V
1
0V
3051
20k
2003
22p
3000
9k1
2065
680n
3065
180k
3043
20k
2026
220n
TP74
-L
2056
560p
2050
33u
2051
33u
F88
5L01
R
3049
1k
5
0V
6
7
0V
3001
9k1
15k 2)
2066
680n
3066
180k
2027
220n
TP61
+R
2057
560p
3052
4k7
2009
22p
2002
4n7
4
-11
4S01
4L01
AUDIO
GND
SSP
3053
4k7
VAR OUT
F89
7L01
3034
4k7
+5STBY
6021
LL4148
2072
100u
H90
6L01
ANTI PLOP
3035
15k
7008
BC848
3031
1k
6011
LL4148
3029
12k
7005
BC848C
3004
100k
+R
2031
22p
3009
200k
2013
220n
+11
7002
LM833N
8
0V
3011
20k
4004
2040
220n
9043
-R
2058
560p
2052
33u
2053
33u
2035
680p
3013
300k
+11
A4
3036
1k5
2073
15u
2038
2n2
3037
1k5
7012
BC848
3033
15k
7007
BC848
3032
1k
6012
LL4148
3030
12k
7006
BC848C
3005
100k
-L
0V
3012
20k
9034
2041
220n
+L
2059
560p
2012
220n
-11
3006
200k
2030
22p
2011
680p
3014
300k
-11
7011
TDA1521AQ
+11
2028
220n
+R
2061
RES
4007
3060
20k
TP75
2029
220n
+L
2060
270p
-11
601
LL4
ONLY FULL SOUND
+11
3028
10k
10k
-11
+5STBY
+11
-11
+13
A7
A3
A2
A6

*	FL1	FL2
2011 2035	680p 680p	3n9 3n9

1) ONLY FULL SOUND
2) REDUCED SOUND

Amplificateur audio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7000
TDA1521Q/N4
7001
TDA1521Q/N4
7011
TDA1521AQ
TP70
TP61
TP73
TP72
TP25
TP26
0209
SK2
SQUEETER
SQUEETER
INT
WOOFER
EXT L
EXT R
SURROUND R
SURROUND L
RED
BLACK
1L37
2L37
1L38
2L38
1L36
2L36
6008
P4KE30C-7000
+11
-11
+V START
A36
A99
7013
BC848
7010
BC858
7003
BC848
6000
LL4148
6001
LL4148
6010
LL4148
6016
LL4148
6017
LL4148
3020
3019
3021
3022
3016
3015
8R2
4012
4010
4011
2)
3054
4M7
9055
9053
9043
9052
9013
9012
4003
3013
300k
3014
300k
3040
27k
3044
220
3072
47
3067
7k5
3073
22k
3074
10k
3069
6k2
3068
1k2
3041
1k5
3027
10k
3028
10k
2025
22n
2043
220n
2033
22n
2045
220n
2046
220n
2047
220n
2077
22n
2056
560p
2057
560p
2058
560p
2059
560p
2050
33u
2051
33u
2052
33u
2053
33u
2061
RES
2060
270p
2007
22n
2010
3n3
2008
22n
2014
3n3
2076
22n
2075
22n
2032
22n
2015
22u
2016
22u
2023
3n3
2024
3n3
2019
10n
2020
10n
2054
10n
2055
10n
2036
560p
2037
560p
2022
10n
2021
10n
2071
33u
2070
33u
2074
1n
2034
10n
2018
22n
-L
+R
-R
+L
0V
SOUND PROT.
B8
A+B+F+H
CHASSIS FL
CL46532015/015.GREF
040294
10
11
12
13
14
15
16
17
18

0209	B15	6011	G 5
2001	A 3	6012	H 5
2002	D 3	6016	J13
2003	A 5	6017	M12
2007	C14	6021	F 5
2008	D13	7000	A12
2009	D 5	7001	F12
2010	C14	7002	F 7
2011	I10	7003	O13
2012	I 7	7005	G 5
2013	F 7	7006	H 5
2014	D14	7007	H 3
2015	B16	7008	G 4
2016	C16	7009	A 3
2018	O13	7010	N14
2019	I16	7011	J11
2020	J16	7012	H 3
2021	L16	7013	M16
2022	K16	9012	H16
2023	B16	9013	H16
2024	D16	9034	H 9
2025	A13	9043	G10
2026	B10	9052	I12
2027	C10	9053	F12
2028	K10	9055	E13
2029	L10		
2030	J 7		
2031	E 7		
2032	K13		
2033	F13		
2034	O12		
2035	E10		
2036	K16		
2037	M16		
2038	I 2		
2040	G10		
2041	H10		
2043	D12		
2045	I13		
2046	J13		
2047	M12		
2050	B11		
2051	C11		
2052	G11		
2053	H11		
2054	K14		
2055	M14		
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2066	C 5		
2070	N15		
2071	N14		
2072	F 5		
2073	I 2		
2074	N16		
2075	I14		
2076	G14		
2077	M13		
3000	B 5		
3001	C 5		
3004	G 6		
3005	H 6		
3006	J 7		
3009	E 7		
3011	G 9		
3012	H 9		
3013	E10		
3014	I10		
3015	L13		
3016	K13		
3019	D13		
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3021	G14		
3022	H14		
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3030	I 5		
3031	G 5		
3032	H 5		
3033	H 3		
3034	F 4		
3035	G 4		
3036	H 2		
3037	I 3		
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3053	E 3		
3054	G16		
3060	K 8		
3065	B 6		
3066	D 6		
3067	M16		
3068	O14		
3069	N16		
3072	M15		
3073	N17		
3074	N17		
4003	N12		
4004	G 9		
4007	K 8		
6000	N12		
6001	N12		
6008	B16		
6010	N14		

Large signal panel FLx.26/.27 /

L01	F1
L02	E1
L03	A1
L08	C4
L13	C4
L27	B3
L28	G1
L30	A1
L31	E2
L33	G2
L34	G2
L35	G3
L36	A2
L37	A3
L38	A2
L39	F3
L40	E3
L61	G2
L62	E5
L65	G2
L67	D4
L68	C3
L69	A2
L80	G4
L87	B2
SK1	G3
SK2	B3
0207	A4
0211	A3
039	H5
040	H4
1200	G3
2001	G1
2002	G1
2003	G1
2004	G1
2005	G1
2007	B5
2008	B5
2009	G1
2010	A4
2011	D5
2012	C5
2013	C5
2014	A3
2015	A3
2016	A3
2018	A5
2019	A4
2020	A4
2021	A4
2022	A4
2023	A3
2024	A3
2025	C5
2026	B5
2027	C5
2028	B5
2029	B5
2030	C5
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2045	D5
2046	B5
2047	B5
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2049	A4
050	C5
051	C5
052	D5
053	D5
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2055	B5
2056	C5
2057	C5
2058	D5
2059	D5
2060	B5
2061	B5
2065	C4
2066	D5
2070	A4
2071	A5
2072	D4
2073	D4
2074	A5
2200	H3
2202	G2
2203	H2
2210	F4
2211	F4
2214	G4
2215	G4
2216	G5
2218	F5
2219	F5
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2232	E5
2233	E4
2234	E5
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2242	B4
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2254	F2
2255	F3
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2261	E3
2262	E3
2263	E2
2270	G1
2272	G2
2302	H5
2303	H5
2308	H5
2321	H5
2331	H4
2351	H4
2360	H4
2361	H4
2365	H4
2372	H4
2374	H4
2376	H4
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2381	E3
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2412	C3
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2450	A1
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2455	B1
2456	A2
2457	A2
2458	B1
2459	B1
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2480	E2
2502	B2
2503	B2
2504	D1
2505	D1
2509	D2
2511	C2
2512	C3
2513	C3
2517	C3
2518	C3
2519	E2
2520	D2
2521	D1
2522	D1
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2553	B4
2554	D4
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2605	F1
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3209	G1
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3237	C4
3238	C4
3239	D3
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3312	H5
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3368	H4
3369	H4
3370	H4
3371	H4
3372	H4
3374	H4
3375	H4
3376	E3
3378	H4
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3381	E3
3382	E3
3383	E3
3385	E3
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3403	A2
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3405	B3
3406	B3
3407	B3
3408	B3
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3439	B3
3440	B1
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3452	B1
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3456	A2
3457	A2
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3459	A1
3460	B1
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3462	A1
3463	A1
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3535	D3
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3537	F2
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3541	C4
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3557	C4
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3562	B4
3563	B4
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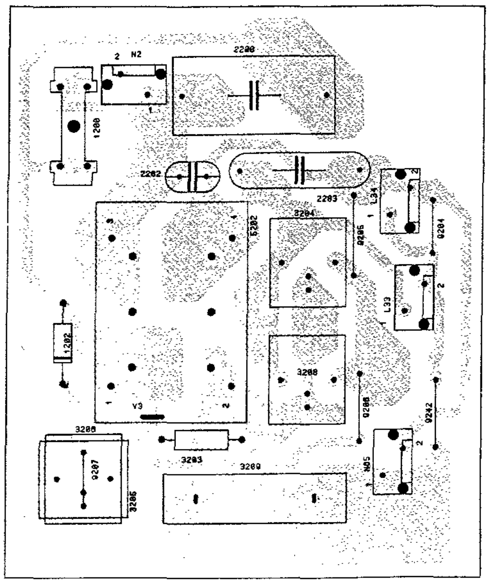

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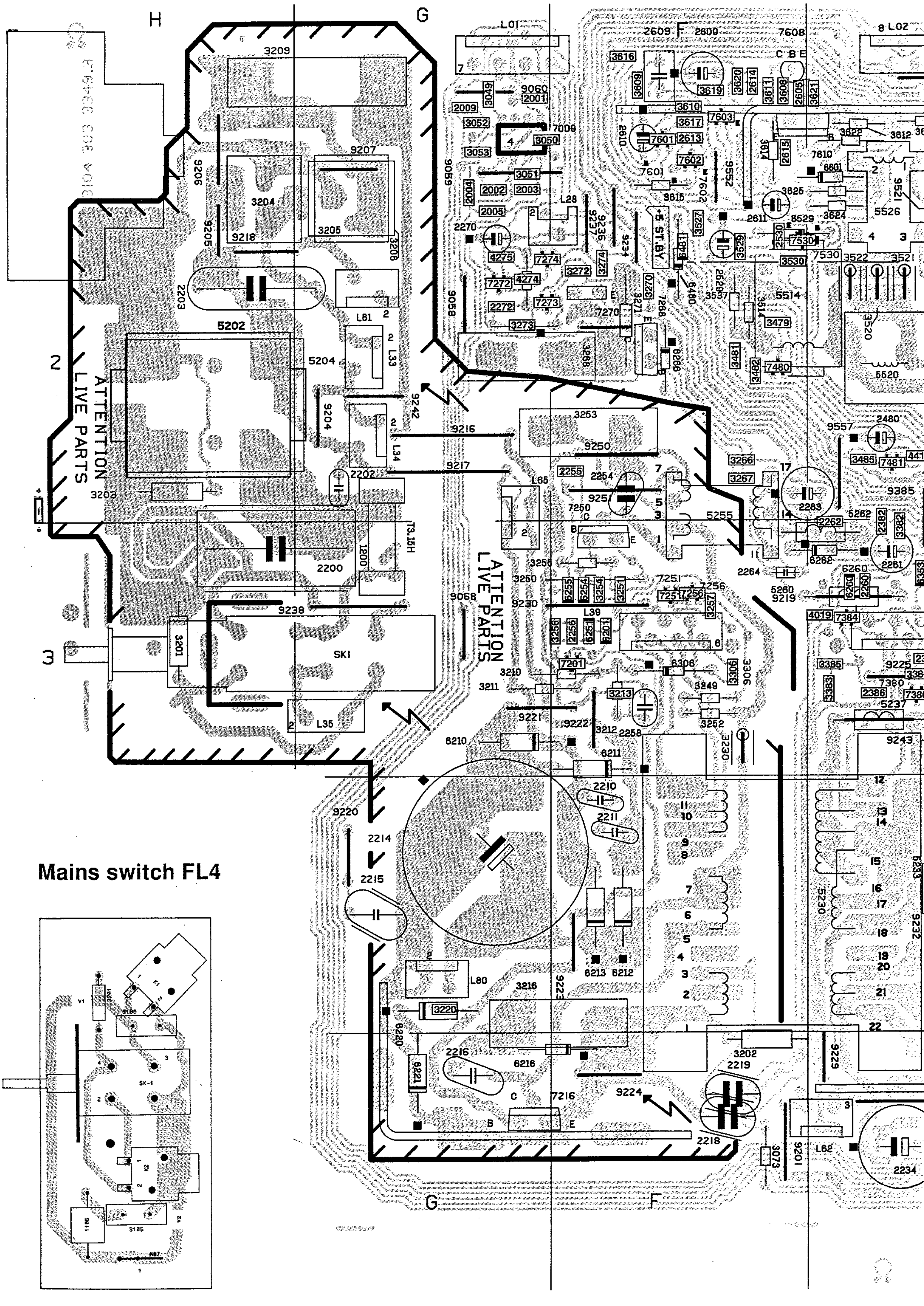
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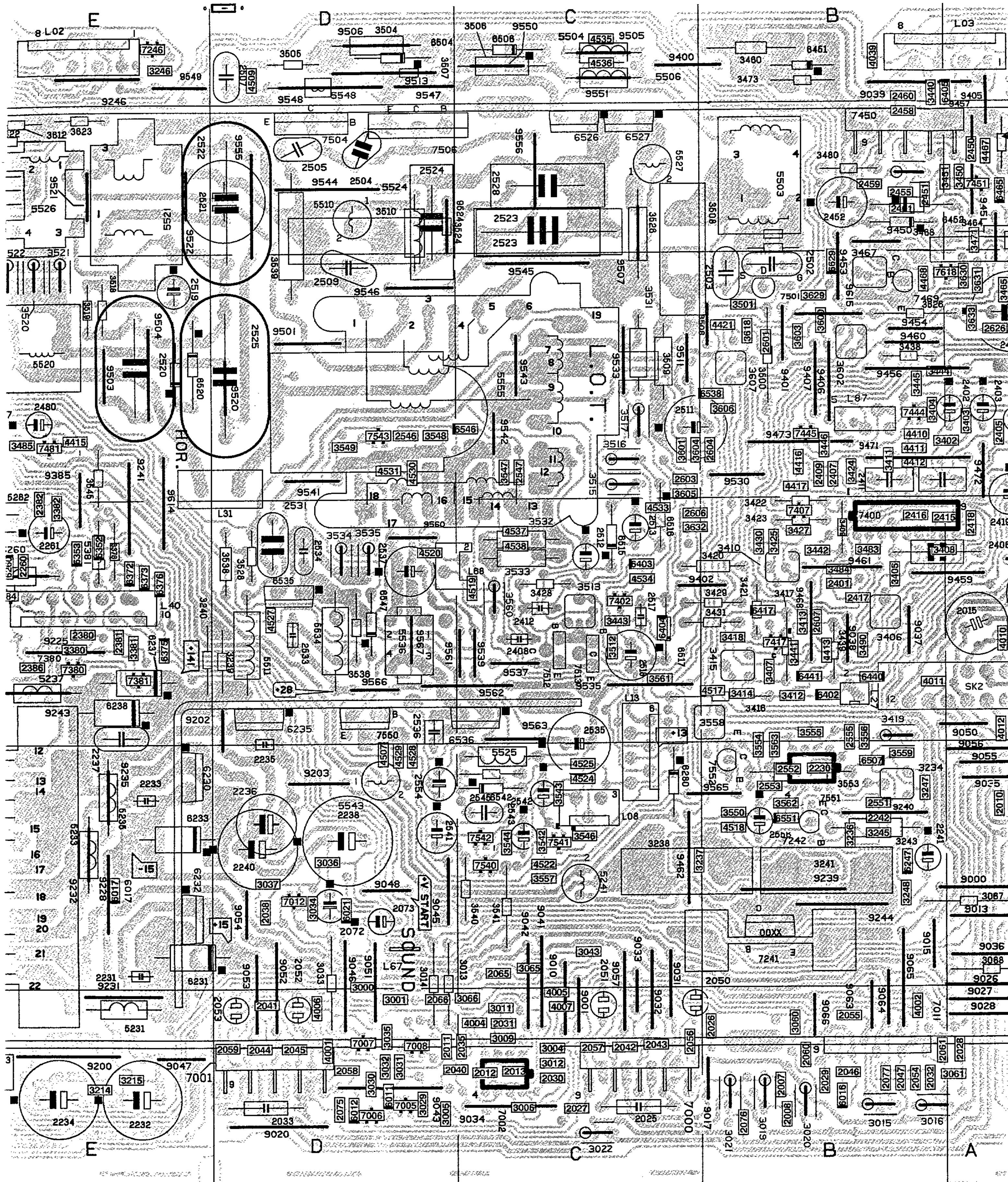
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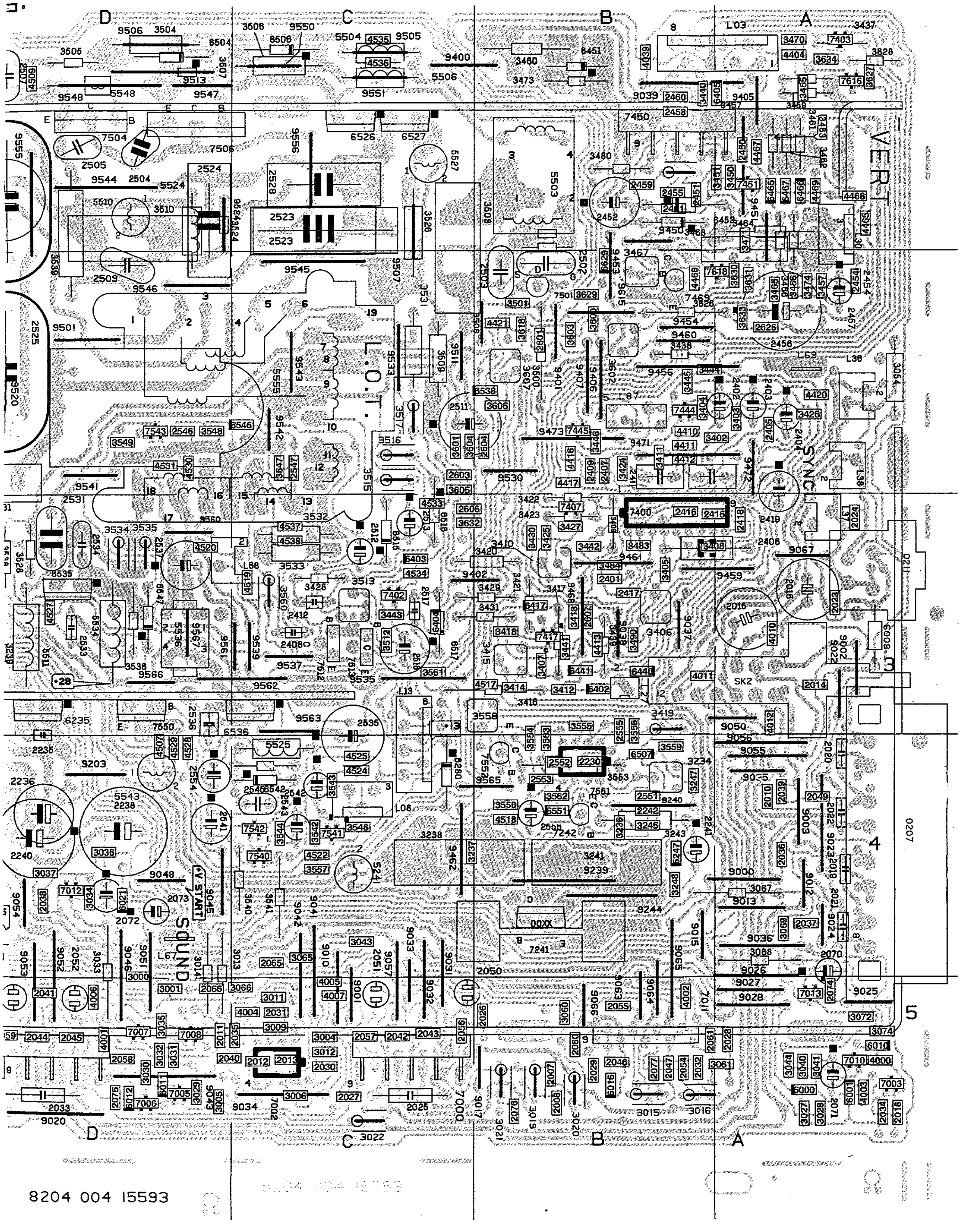

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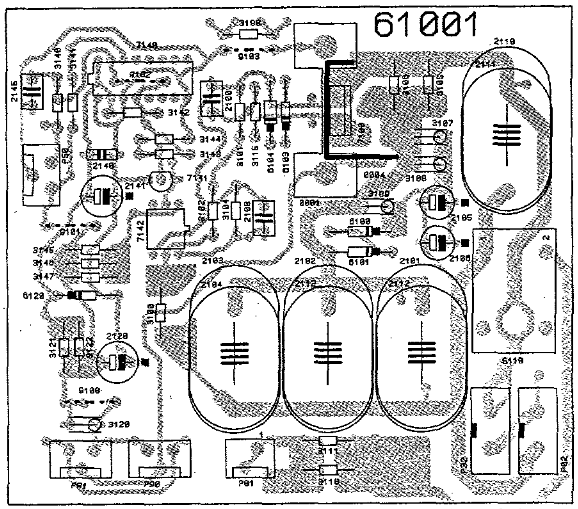
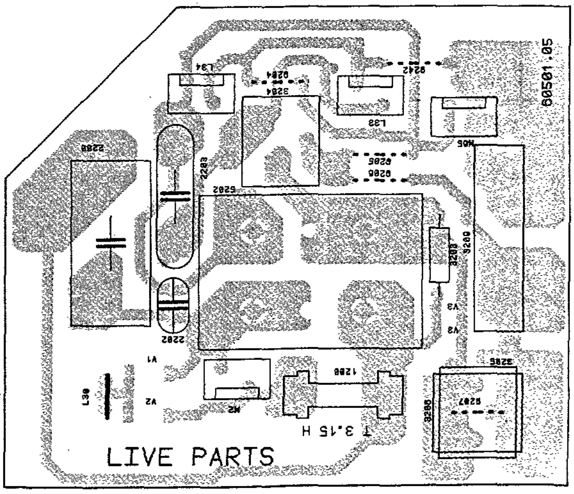
Panorama

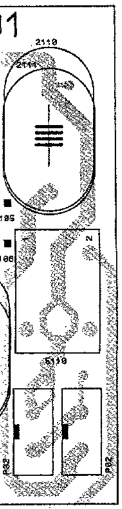


Mains filter FL2



Large signal panel FLx.24 / Groß-signal Platte FLx.24 /

anorama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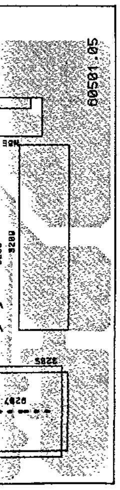

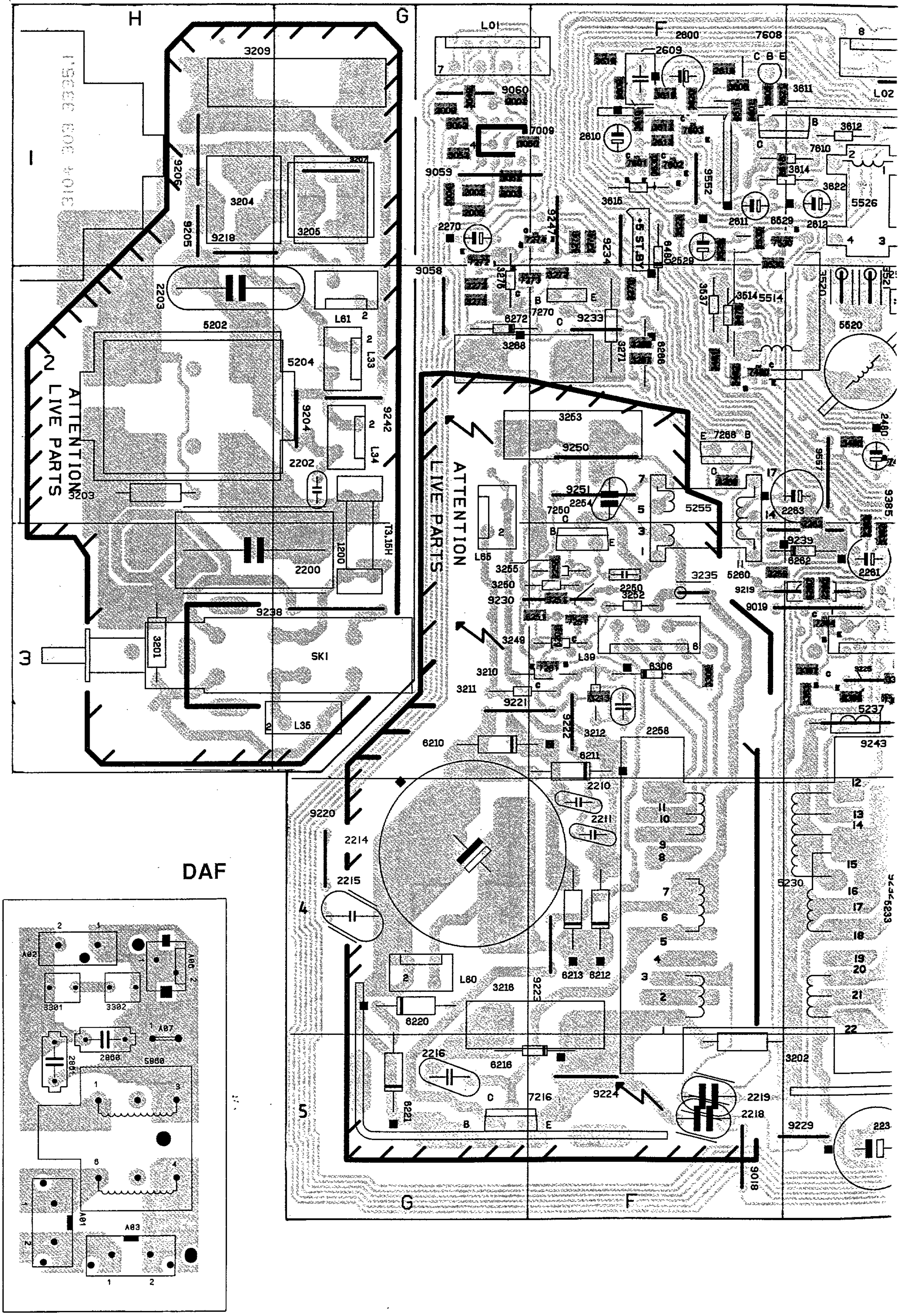
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L34
2202
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SKI
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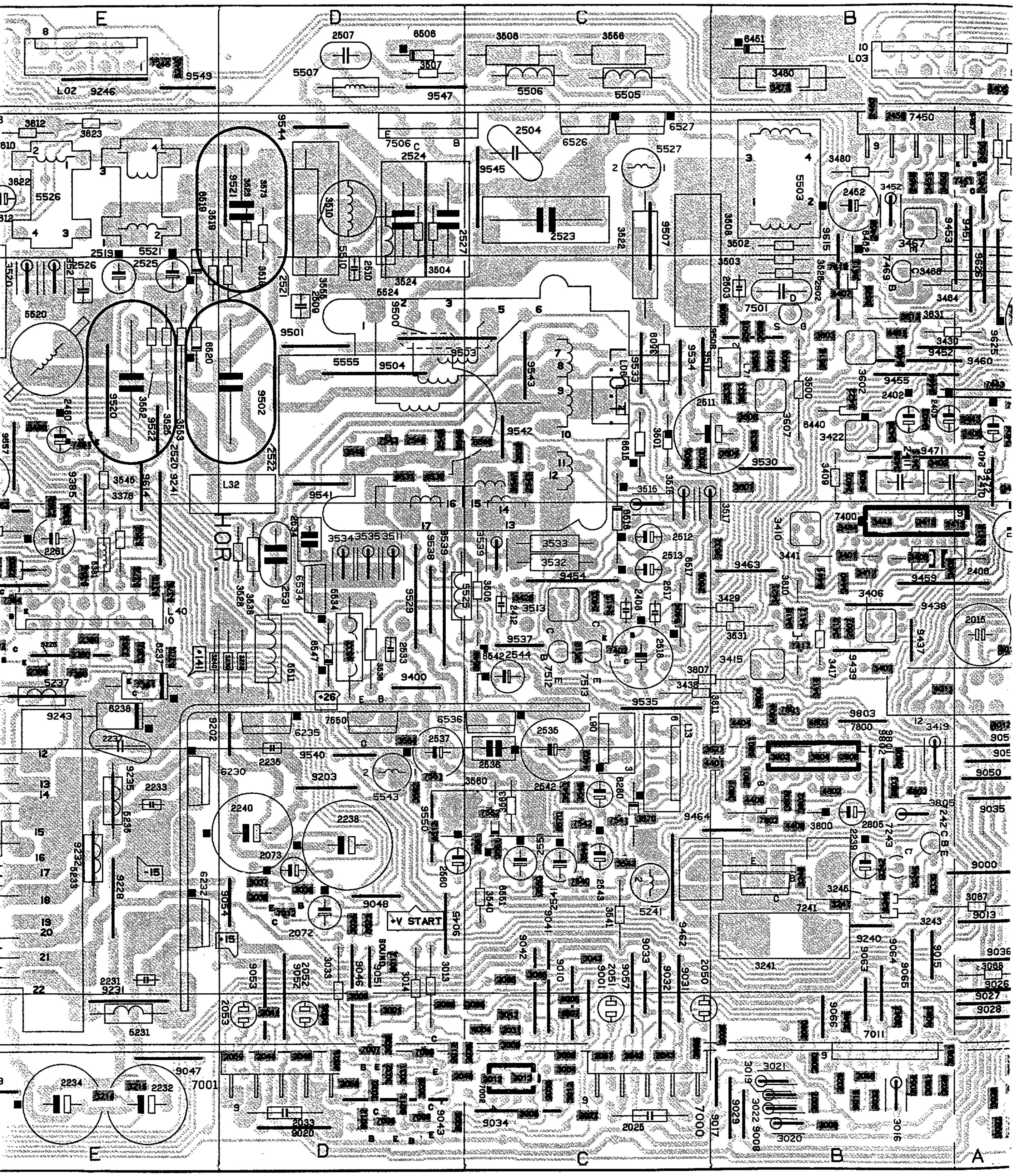

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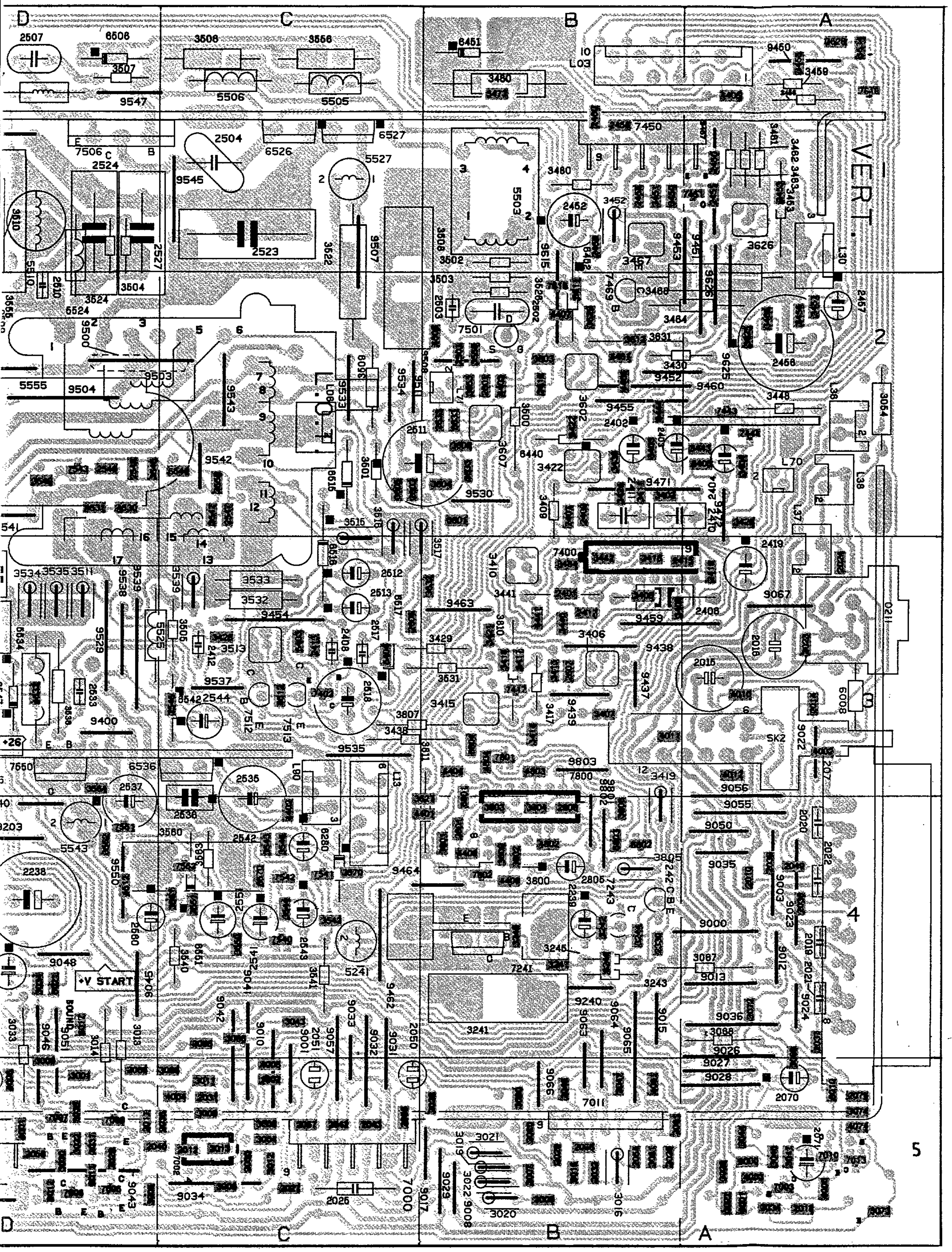
gneaux FLx.24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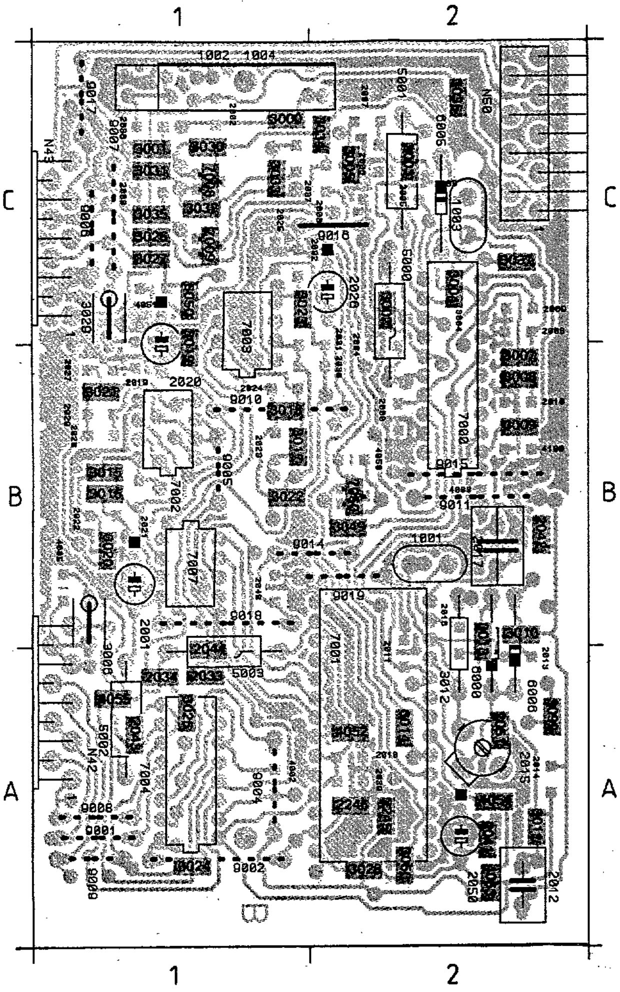
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1002	C1	2022	B1	2245	A2	3023	C1	4054	A2	9007	C1
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2005	C2	2030	B2	3006	B1	3031	C1	6005	C2	9017	C1
2006	C2	2031	B2	3007	B2	3032	C1	6006	A2	9018	B1
2007	C2	2032	C1	3008	B2	3033	C1	6050	C1	9019	B2
2008	B2	2033	A1	3009	B2	3034	C2	7000	B2		
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2010	B2	2035	C2	3011	A2	3036	C2	7002	B1		
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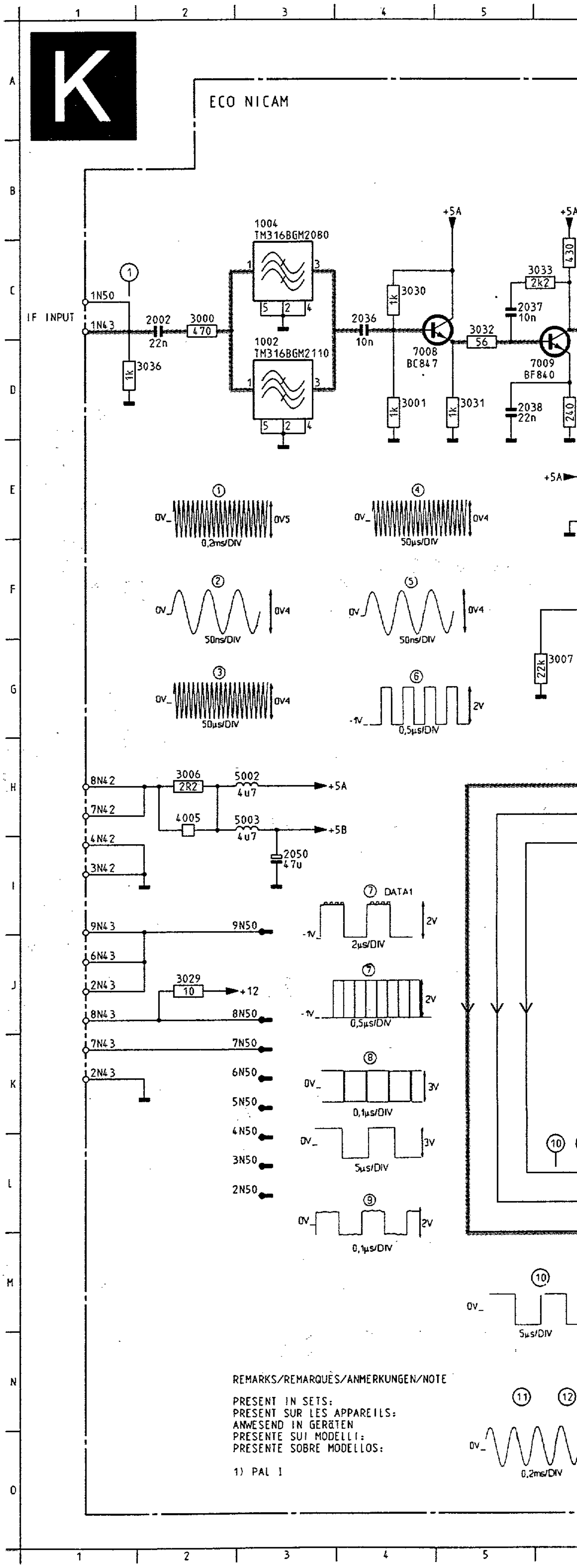
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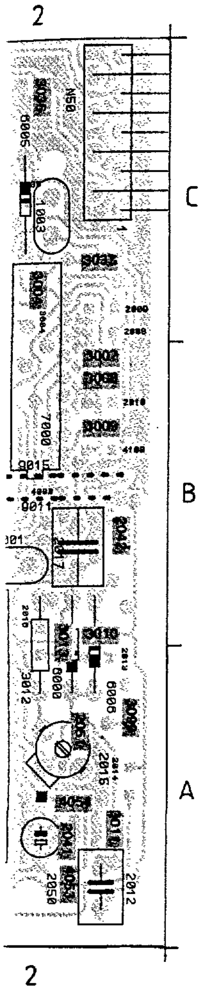
0V4
50μs/DIV
50ns/DIV
DATA1
2μs/DIV
0,5μs/DIV
2V
-1V
3V
0,1μs/DIV
5μs/DIV
0V

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I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6005	C2	9017	C1
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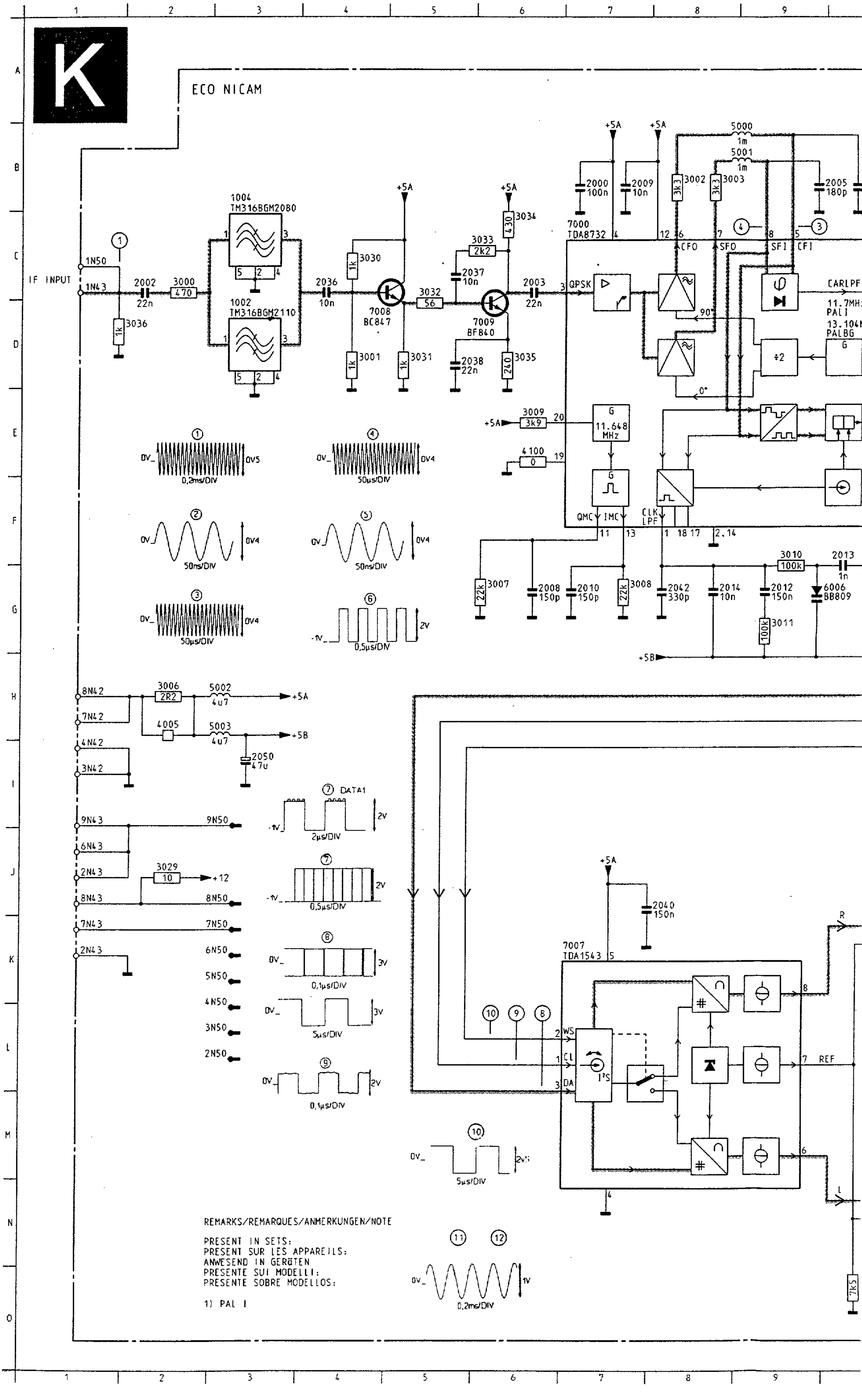
7000	B2		
7001	A2		
7002	B1		
7003	B1		
7004	A1		
7007	B1		
7008	C1		
7009	C1		
7050	B2		
9001	A1		

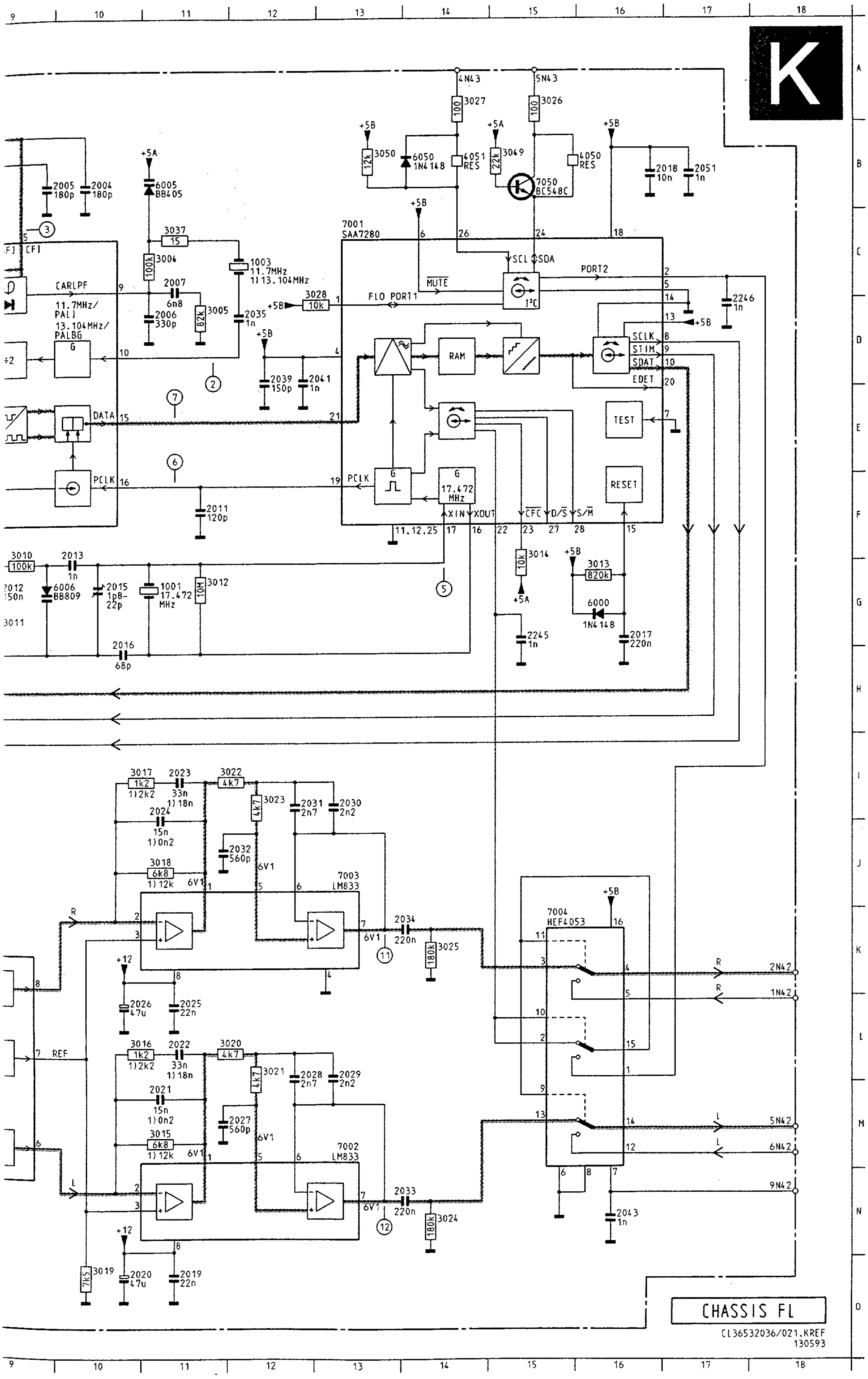

K
ECO NICAM
IF INPUT
1N50
1N43
2002 22n
3000 470
3036 1k
1004 TM316BGM2080
1002 TM316BGM2110
2036 10n
3030 1k
7008 BC847
3001 1k
3031 1k
3032 56
3033 2k2
2037 10n
7009 BF840
2038 22n
3034 430
3035 240
2003 22n
+5A
2000 100n
2009 10n
3002 3k3
3003 3k3
5000 1m
5001 1m
2005 180p
7000 TDA8732
QPSK
CFO
SFO
SFI
CFI
90°
0°
CARLPF
11.7MH
PALI
13.104
PALBG
÷2
G
3009 3k9
11.648 MHz
4100 0
QMC
IMC
CLK LPF
3007 22k
2008 150p
2010 150p
3008 22k
2042 330p
2014 10n
2012 150n
3010 100k
2013 1n
6006 BB809
3011 100k
+5B
① 0V 0V5 0,2ms/DIV
④ 0V 0V4 50μs/DIV
② 0V 0V4 50ns/DIV
⑤ 0V 0V4 50ns/DIV
③ 0V 0V4 50μs/DIV
⑥ -1V 2V 0,5μs/DIV
8N42
7N42
4N42
3N42
3006 2R2
5002 4u7
4005
5003 4u7
2050 47u
+5A
+5B
9N43
6N43
2N43
8N43
7N43
2N43
9N50
3029 10
+12
8N50
7N50
6N50
5N50
4N50
3N50
2N50
⑦ DATA1 -1V 2V 2μs/DIV
⑦ -1V 2V 0,5μs/DIV
⑧ 0V 3V 0,1μs/DIV
0V 3V 5μs/DIV
⑨ 0V 2V 0,1μs/DIV
⑩ 0V 2V 5μs/DIV
⑪ ⑫ 0V 1V 0,2ms/DIV
2040 150n
7007 TDA1543
WS
CL
DA
I²S
R
REF
L
7k5

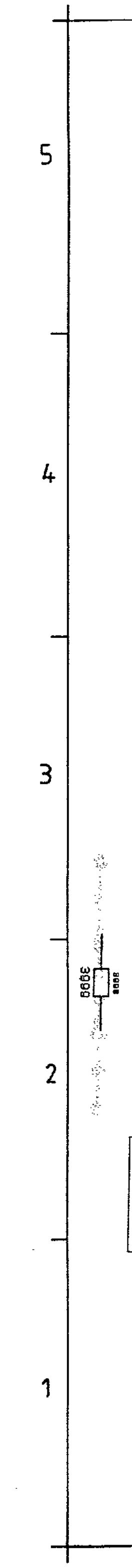
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I

NICAM


K
7001 SAA7280
7003 LM833
7002 LM833
7004 HEF4053
7050 BC548C
6050 1N4148
6005 BB405
6006 BB809
6000 1N4148
1003 11.7MHz 1) 13.104MHz
1001 17.472 MHz
RAM
TEST
RESET
I²C
SCL
SDA
PORT2
MUTE
FLO PORT1
SCLK
STIM
SDAT
EDET
CFC
D/S
S/M
XIN
XOUT
G 17.472 MHz
CARLPF
11.7MHz/ PALI
13.104MHz/ PALBG
DATA
PCLK
CFI
4N43
5N43
2N42
1N42
5N42
6N42
9N42
R
L
REF
+5A
+5B
+12
6V1
CHASSIS FL
CL 36532036/021.KREF 130593

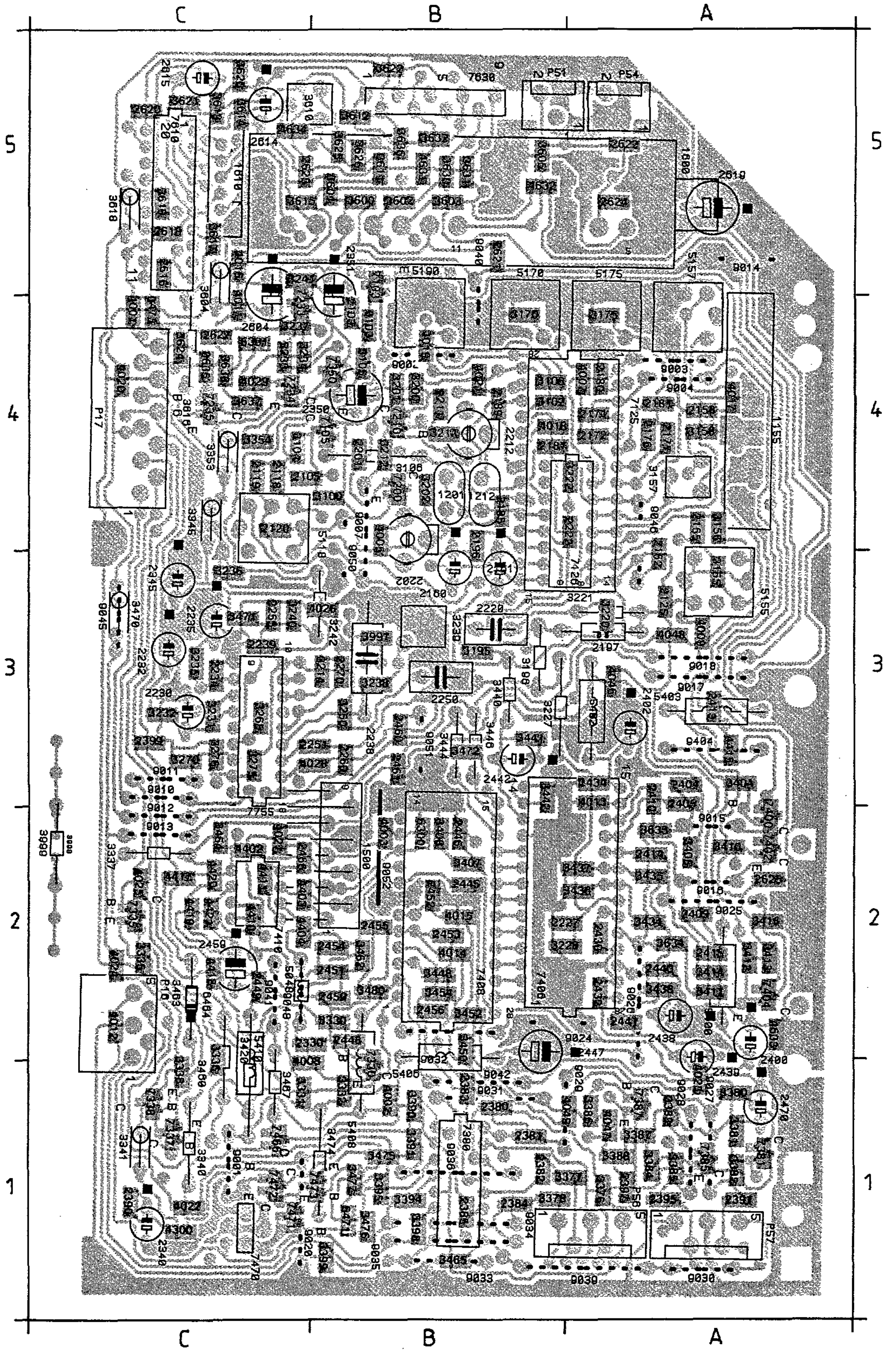

PIP p
5
4
3
2
1
3009

1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	O11
2020	O10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	O10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15

P16	C2	21
P17	C4	21
P51	B5	21
P54	A5	21
P56	A1	21
P57	A1	21
1155	A4	21
1201	B4	21
1212	B4	21
1500	B2	21
1600	B5	21
1610	C5	21
2103	B4	21
2105	C4	21
2118	C4	21
2119	C4	21

PIP panel

1001	G11
1002	D 3
1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
2009	B 7
2010	G 7
2011	F11
2012	G 9
2013	F10
2014	G 8
2015	G10
2016	G10
2017	G16
2018	B16
2019	D11
2020	D10
2021	M11
2022	L11
2023	I11
2024	I11
2025	L11
2026	L10
2027	M12
2028	L12
2029	L13
2030	I13
2031	I12
2032	J12
2033	N14
2034	K14
2035	D12
2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
2050	I 3
2051	B17
2245	G15
2246	D17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C11
3005	D11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G11
3013	G16
3014	F15
3015	M11
3016	L10
3017	I10
3018	J11
3019	D10
3020	L12
3021	L12
3022	I12
3023	I12
3024	N14
3025	K14
3026	A15
3027	A14
3028	C13
3029	J 2
3030	C 4
3031	D 5
3032	C 5
3033	C 6
3034	C 6
3035	D 6
3036	D 1
3037	C11
3049	B15
3050	B13
4005	H 2
4050	B16
4051	B14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G16
6005	B11
6006	G 9
6050	B14
7000	C 7
7001	C13
7002	M13
7003	J13
7004	K15
7007	K 7
7008	D 5
7009	D 6
7050	B15



P16	C2
P17	C4
P51	B5
P54	A5
P56	A1
P57	A1
1155	A4
1201	B4
1212	B4
1500	B2
1600	B5
1610	C5
2103	B4
2105	C4
2118	C4
2119	C4
2120	C4
2125	A3
2155	A4
2158	A4
2160	B3
2161	B3
2162	A3
2171	A4
2172	A4
2176	A4
2177	A4
2180	A4
2181	A4
2185	B4
2187	B4
2189	B4
2196	B4
2197	A3
2201	B4
2202	B4
2211	B4
2212	B4
2220	B3
2222	B4
2227	B2
2230	C3
2232	C3
2234	C3
2235	C3
2238	B3
2239	C3
2250	B3
2251	C3
2255	C3
2260	B3
2270	B3
2330	C2
2340	C1
2345	C3
2350	B4
2351	B4
2380	B1
2381	B1
2382	B1
2383	B1
2384	B1
2385	B1
2390	C1
2391	A1
2395	A1
2397	A1
2399	C3
2400	A2
2402	A3
2404	A3
2405	A2
2409	A2
2410	A3
2413	A3
2414	A2
2415	A2
2430	A2
2432	A2
2434	A3
2438	A2
2439	A2
2440	A2
2441	A2
2442	B3
2445	B2
2446	B2
2447	B2
2448	B2
2449	C2
2450	B2
2451	B2
2452	B2
2453	B2
2454	B2
2455	B2
2456	B2
2459	C2
2460	B3
2461	B3
2466	C2
2470	A1
2604	C4
2614	C5
2615	C5
2616	C5
2618	C5
2619	A5
2620	C5
2621	B5
2622	A5
2623	C5
2624	A5
2625	A2
2627	C4
3100	B4
3103	B4
3104	C4
3105	B4
3106	B4
3107	B4
3108	B4
3155	A3
3156	A4
3157	A4
3158	A4
3170	B4
3175	A4
3195	B3
3196	B3
3200	B4
3201	B4
3202	B4
3211	B4
3212	B4
3214	B3
3220	A3
3221	A3
3222	B4
3227	B3
3228	B2
3231	C3
3232	C3
3233	C4
3234	C4
3235	C3
3236	C3
3237	C4
3238	B3
3239	B3
3240	C3
3241	C5
3242	B3
3250	B3
3265	C3
3270	C3
3275	C3
3276	C3
3330	B2
3331	C1
3332	B1
3335	C2
3336	C1
3337	C2
3338	C1
3340	C1
3341	C1
3345	C4
3353	C4
3354	C4
3376	A1
3377	A1
3378	B1
3380	A1
3381	A1
3382	A1
3383	A1
3384	A1
3385	A1
3386	A1
3387	A1
3388	A1
3390	B1
3391	B1
3394	B1
3395	B1
3398	B1
3399	B1
3404	A3
3405	A2
3406	B2
3407	B2
3410	A2
3411	A2
3412	A2
3413	A2
3414	A2
3416	A2
3420	C1
3434	A2
3435	A2
3436	A2
3437	A2
3438	A2
3440	B3
3441	B3
3442	B3
3444	B3
3446	B3
3448	B2
3450	B2
3452	B2
3454	B2
3460	C1
3462	B2
3463	C2
3464	C2
3465	B1
3467	C1
3471	C3
3472	B3
3473	C4
3474	B1
3475	B1
3476	B1
3477	B1
3480	B2
3600	B5
3601	B5
3602	B5
3603	B5
3604	C4
3605	B5
3610	C5
3611	B5
3612	B5
3613	C5
3614	C5
3615	C5
3616	C4
3617	C5
3618	C5
3619	C5
3620	C5
3621	C5
3622	B5
3624	C4
3625	B5
3626	B5
3630	B5
3631	B5
3632	B5
3633	A2
3634	A2
3635	C4
3636	B5
3637	C4
3638	C4
3997	B3
4001	C4
4002	B1
4003	B2
4005	B4
4007	A4
4008	C1
4009	A3
4011	C4
4012	C2
4013	A3
4014	B2
4015	B2
4016	C5
4017	A4
4018	B4
4019	B4
4020	C4
4021	B4
4022	C1
4023	A1
4024	C2
4025	C2
4026	B3
4027	C2
4028	C3
4029	C4
4046	A3
4047	A1
4048	A3
4049	A1
4300	C1
4402	C2
4403	C2
4404	C2
4410	C2
4411	C2
4415	A3
4417	C2
4418	C2
4419	C2
4420	C2
4421	C2
4631	B5
4632	B5
4633	A2
4634	C5
5048	C2
5118	C4
5155	A3
5157	A4
5170	B4
5175	A4
5190	B4
5400	A2
5402	A3
5403	A3
5406	B1
5408	B1
5410	C1
6300	B2
6301	C4
6464	C2
6471	B1
7103	B5
7105	B4
7125	B4
7126	B4
7200	B4
7210	B4
7233	C4
7234	C4
7235	C4
7330	B1
7335	C2
7337	C1
7338	C1
7350	B4
7380	B1
7381	A1
7385	A1
7387	A1
7400	A2
7402	A2
7404	A2
7406	A2
7408	B2
7410	C2
7466	C1
7470	C1
7471	C1
7472	C1
7473	B1
7610	C5
7630	B5
7755	C3
9001	C1
9002	B4
9003	A4
9004	A4
9007	B4
9010	C2
9011	C3
9012	C2
9013	C2
9014	A5
9015	A2
9016	A2
9017	A3
9018	A3
9020	C1
9024	B2
9025	A2
9026	A2
9027	A1
9028	A1
9029	A1
9030	A1
9031	B1
9032	B2
9033	B1
9034	B1
9035	B1
9036	B1
9039	A1
9040	B4
9041	C2
9042	B1
9045	C3
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9048	C2
9050	B3
9051	B3
9052	B2
9404	A3

Picture in picture / Bild im Bild /

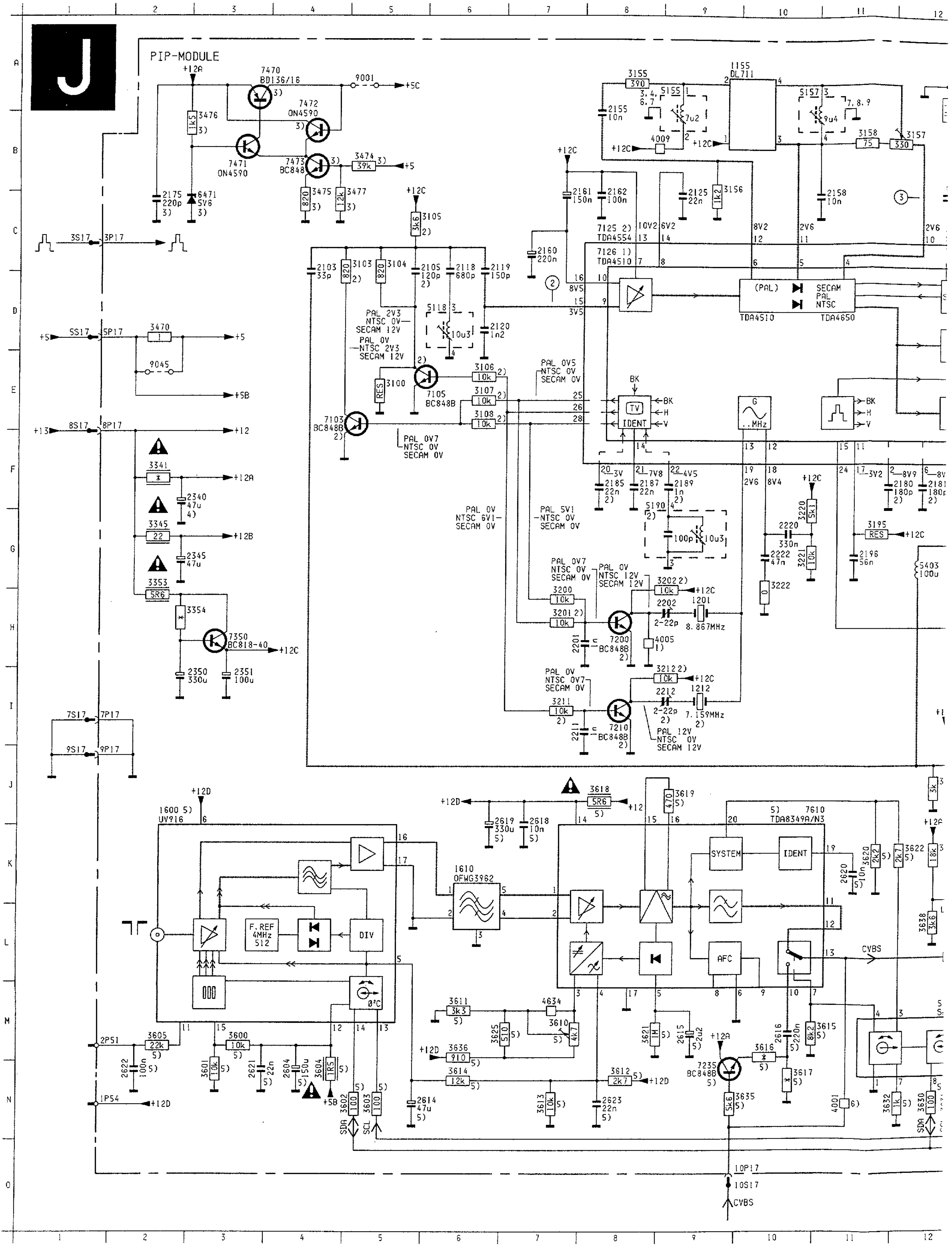
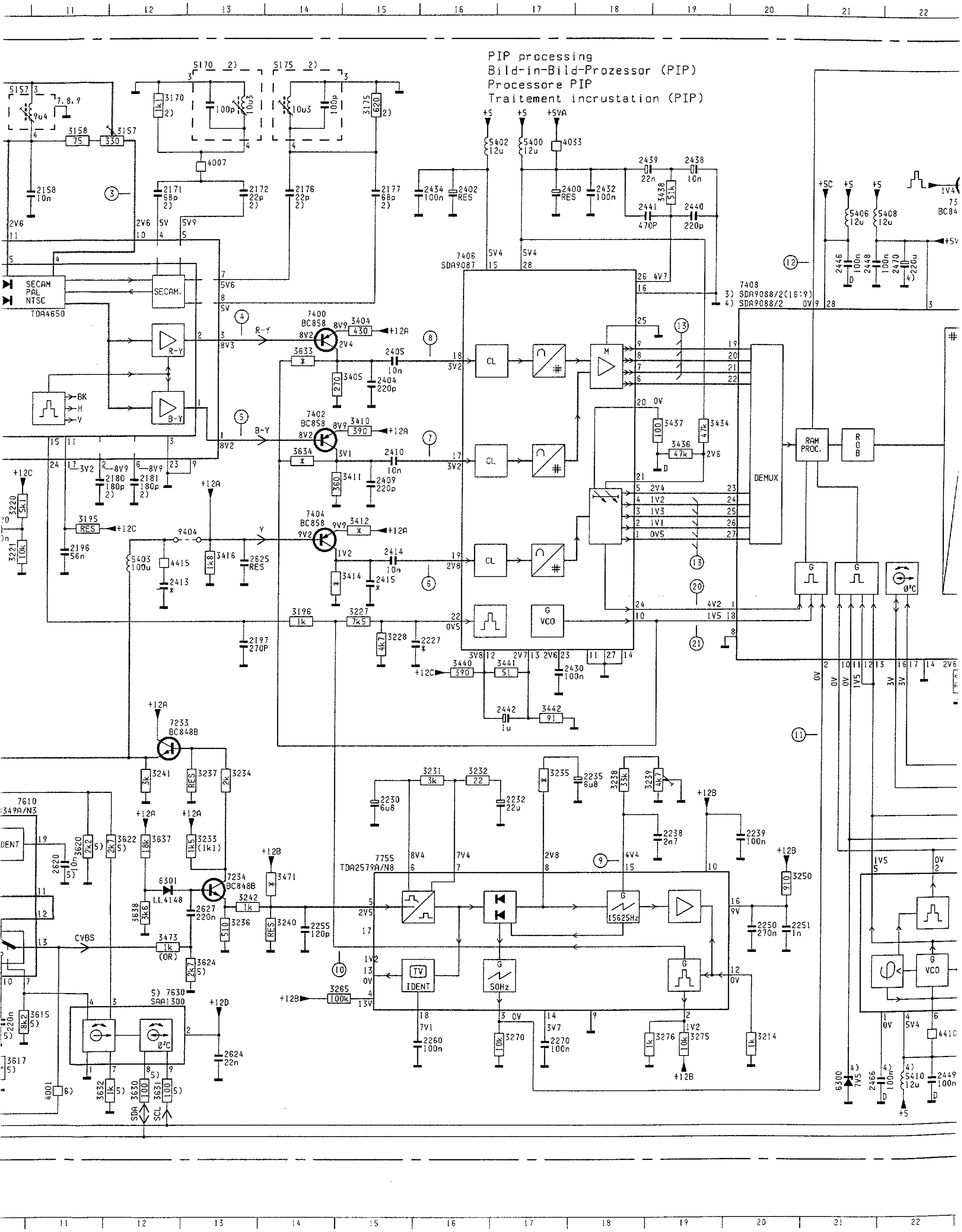
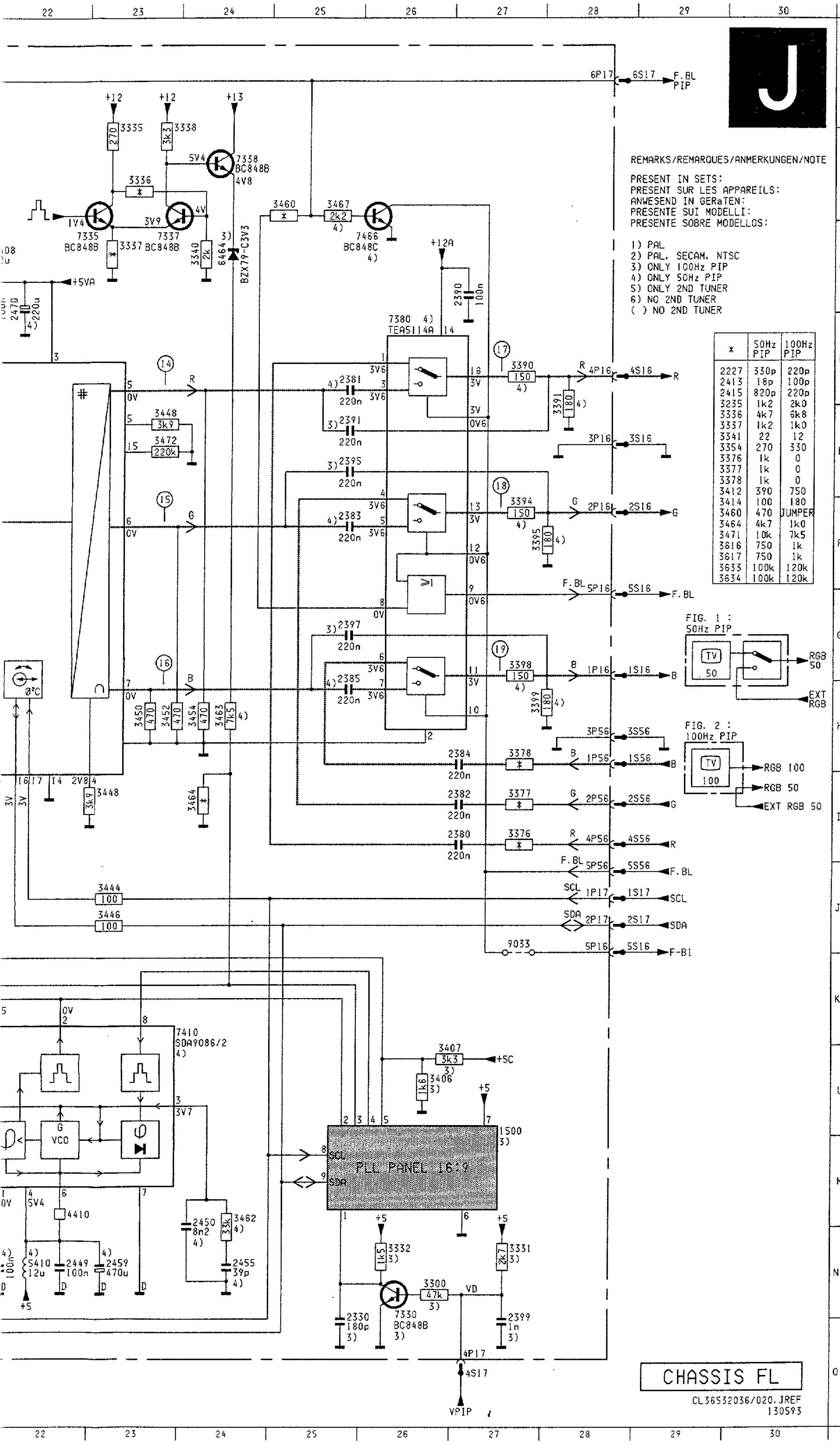

J
PIP-MODULE
+12A
7470 BD136/16
9001
+5C
7472 ON4590
3476 1k5
7471 ON4590
7473 BC848
3474 39k
+5
2175 220p
6471 5V6
3475 820
3477 12k
+12C
3105 3k6
3S17 3P17
2103 33p
3103 820
3104 820
2105 120p
2118 680p
2119 150p
PAL 2V3 NTSC 0V SECAM 12V
PAL 0V NTSC 2V3 SECAM 12V
5118 10u3
2120 1n2
5S17 5P17
3470
9045
+5B
3100 RES
7105 BC848B
3106 10k
3107 10k
3108 10k
7103 BC848B
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V5 NTSC 0V SECAM 0V
+13
8S17 8P17
+12
3341
+12A
2340 47u
3345 22
+12B
2345 47u
3353 5R6
3354
7350 BC818-40
2350 330u
2351 100u
7S17 7P17
9S17 9P17
3155 390
1155 DL711
5155 7u2
4009
2155 10n
5157 9u4
3158 75
3157 330
2161 150n
2162 100n
2125 22n
3156 1k2
2158 10n
2160 220n
7125 TDA4554
7126 TDA4510
8V5
3V5
10V2
6V2
8V2
2V6
(PAL)
SECAM PAL NTSC
TDA4510
TDA4650
BK
IDENT
H
V
G
..MHz
2185 22n
2187 22n
2189 1n
5190 100p 10u3
PAL 0V NTSC 6V1 SECAM 0V
PAL 5V1 NTSC 0V SECAM 0V
3220 5k1
2220 330n
2222 47n
3222
3221 10k
3195 RES
2196 56n
5403 100u
2180 180p
2181 180p
PAL 0V7 NTSC 0V SECAM 0V
PAL 0V NTSC 12V SECAM 12V
3200 10k
3202 10k
3201 10k
2202 2-22p
1201 8.867MHz
7200 BC848B
4005
2201
PAL 0V NTSC 0V7 SECAM 0V
3212 10k
2212 2-22p
1212 7.159MHz
3211 10k
7210 BC848B
2211
PAL 12V NTSC 0V SECAM 12V
+12D
1600 UV916
F.REF 4MHz 512
DIV
0°C
1610 OFWG3962
3618 5R6
3619 470
2619 330u
2618 10n
7610 TDA8349A/N3
SYSTEM
IDENT
AFC
CVBS
2620 10n
3620 2k2
3622 2k7
3611 3k3
4634
3610 4k7
3625 510
3636 910
3614 12k
3612 2k7
3621 1M
2615 2u2
7235 BC848B
3616
2616 220n
3615 8k2
3617
3635 5k6
4001
3632 1k
3630 100
3638 3k6
2P51
3605 22k
3600 10k
2622 100n
3601 10k
2621 22n
2604 150u
3604 1R5
+5B
3602 100
3603 100
SDA
SCL
2614 47u
3613 10k
2623 22n
1P54
10P17
10S17
CVBS

Image dans l'image



PIP processing
Bild-in-Bild-Prozessor (PIP)
Processore PIP
Traitement incrustation (PIP)

11
12
13
14
15
16
17
18
19
20
21
22
5157
5170 2)
5175 2)
3170
3175
3158 75
3157 330
4007
2158 10n
2171 68p
2172 22p
2176 22p
2177 68p
SECAM
PAL
NTSC
TDA4650
SECAM.
R-Y
B-Y
BK
H
V
R-Y
B-Y
Y
7400 BC858
7402 BC858
7404 BC858
3404 430
3410 390
3412
+12A
+12C
3633
3634
2405 10n
2410 10n
2414 10n
3405 270
3411 360
3414
2404 220p
2409 220p
2415
3195 RES
2196 56n
3220 5k1
3221 10k
9404
5403 100u
4415
2413
3416 1k8
2625 RES
3196 1k
3227 7k5
3228 4k7
2227
2197 270P
2180 180p
2181 180p
+5
+5VA
5402 12u
5400 12u
4033
2434 100n
2402 RES
2400 RES
2432 100n
2439 22n
2438 10n
3438 51k
2441 470P
2440 220p
7406 SDA9087
CL
VCO
M
3437 100
3434 47k
3436 47k
DEMUX
RAM PROC.
R G B
7408
3) SDA9088/2(16:9)
4) SDA9088/2
3440 390
3441 51
2430 100n
2442 1u
3442 91
+5C
5406 12u
5408 12u
2446 100n
2448 100n
2470 220u
BC84
7233 BC848B
3241 3k
3237 RES
3234 2k
7610
TDA2579A/N8
7755
3231 3k
3232 22
2230 6u8
2232 22u
3235
2235 6u8
3238 33k
3239 4k7
2238 2n7
2239 100n
+12B
3250 910
2250 270n
2251 1n
15625Hz
50Hz
TV IDENT
3265 100k
2260 100n
3270 10k
2270 100n
3276 1k
3275 10k
3214 1k
3622 2k7
3620 2k2
2620 10n
3637 18k
3233 1k5 (1k1)
7234 BC848B
6301 LL4148
3638 3k6
2627 220n
3242 1k
3471
3236 510
3240 RES
2255 120p
CVBS
3473 1k (OR)
3624 2k7
5) 7630 SAA1300
+12D
2624 22n
3615 8k2
3617
4001
3632 1k
3630 100
3631 100
SDA
SCL
6300 7V5
2466 100n
5410 12u
2449 100n
4410
0°C
IDENT


22
23
24
25
26
27
28
29
30
J
+12
+12
+13
270 3335
3k3 3338
5V4
7338 BC848B
4V8
3336
1V4
3V9
4V
7335 BC848B
7337 BC848B
3337
3340 2k
3) 6464
BZX79-C3V3
3460
3467 2k2 4)
7466 BC848C 4)
6P17
6S17
F.BL PIP
+5VA
2470 220u 4)
+12A
2390 100n
7380 4) TEA5114A
14
R
G
B
3448 3k9
3472 220k
2381 220n
2391 220n
2395 220n
2383 220n
2397 220n
2385 220n
3V6
3V
0V6
3390 150 4)
3391 180 4)
3394 150 4)
3395 180 4)
3398 150 4)
3399 180 4)
4P16 4S16 R
3P16 3S16
2P16 2S16 G
5P16 5S16 F.BL
1P16 1S16 B
3P56 3S56
1P56 1S56 B
2P56 2S56 G
4P56 4S56 R
5P56 5S56 F.BL
1P17 1S17 SCL
2P17 2S17 SDA
9033
5P16 5S16 F-B1
2384 220n
2382 220n
2380 220n
3378
3377
3376
3450 470
3452 470
3454 470
3463 7k5 4)
3464
3444 100
3446 100
2V8
0°C
FIG. 1 : 50Hz PIP
TV 50
RGB 50
EXT RGB
FIG. 2 : 100Hz PIP
TV 100
RGB 100
RGB 50
EXT RGB 50
7410 SDA9086/2 4)
VCO
3V7
4410
5410 12u
2449 100n
2459 470u
2450 8n2 4)
3462 33k 4)
2455 39p 4)
3407 3k3 3)
+5C
3406 1k6 3)
+5
1500 3)
PLL PANEL 16:9
SCL
SDA
3332 1k5 3)
3331 2k7 3)
3300 47k 3)
VD
7330 BC848B 3)
2330 180p 3)
2399 1n 3)
4P17
4S17
VPIP

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL
2) PAL, SECAM, NTSC
3) ONLY 100Hz PIP
4) ONLY 50Hz PIP
5) ONLY 2ND TUNER
6) NO 2ND TUNER
( ) NO 2ND TUNER

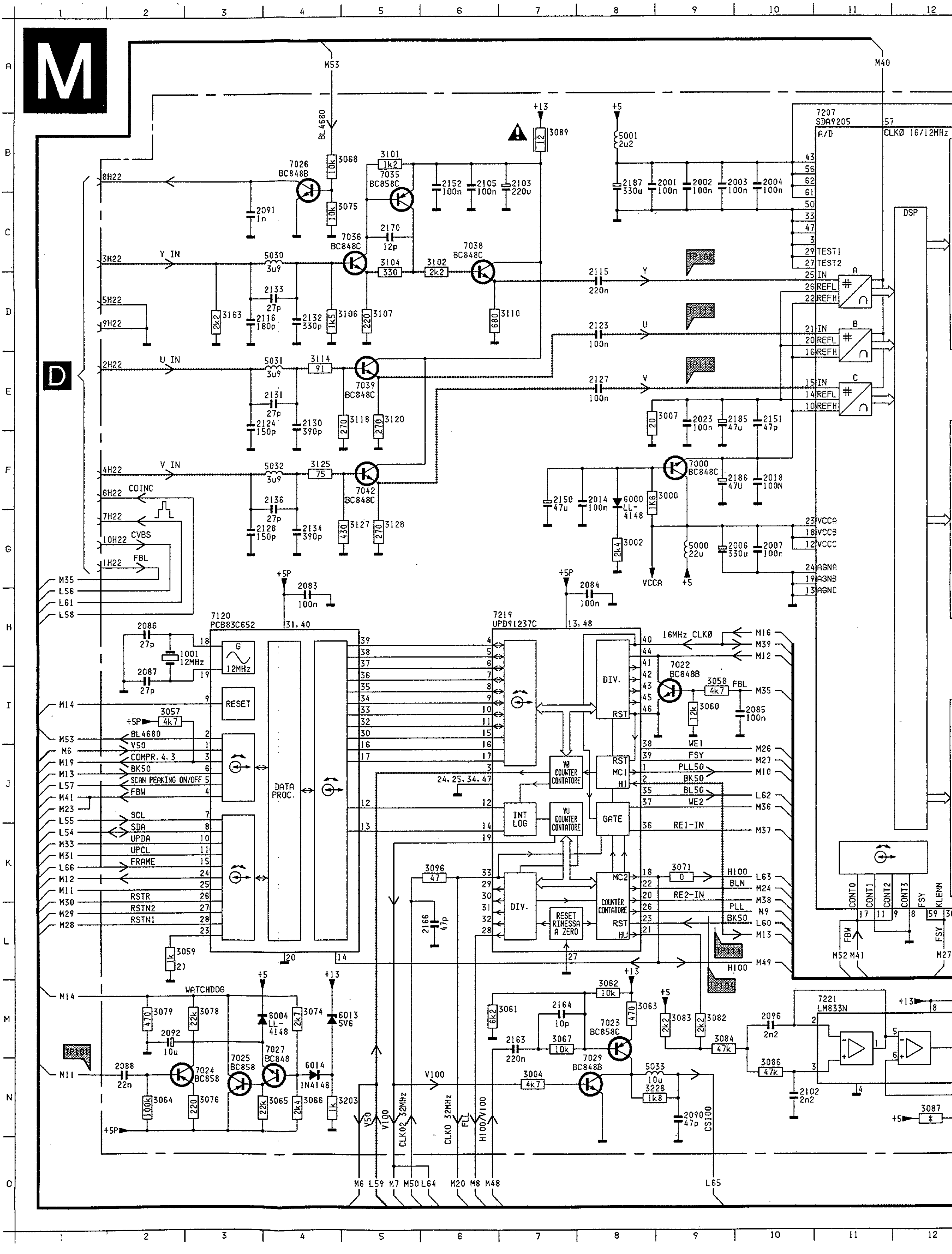
*	50Hz PIP	100Hz PIP
2227	330p	220p
2413	18p	100p
2415	820p	220p
3235	1k2	2k0
3336	4k7	6k8
3337	1k2	1k0
3341	22	12
3354	270	330
3376	1k	0
3377	1k	0
3378	1k	0
3412	390	750
3414	100	180
3460	470	JUMPER
3464	4k7	1k0
3471	10k	7k5
3616	750	1k
3617	750	1k
3633	100k	120k
3634	100k	120k

CHASSIS FL

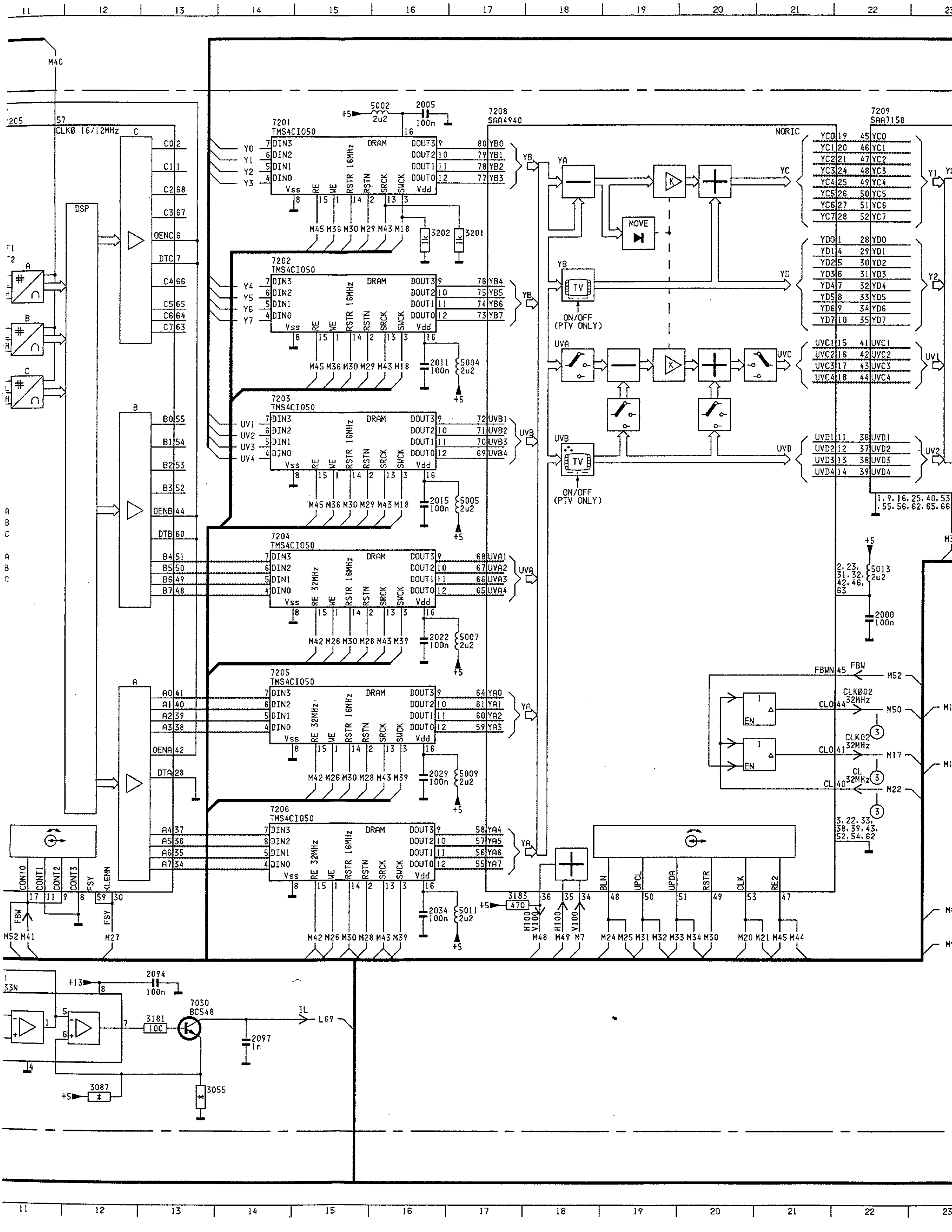
CL36532036/020.JREF
130593

1155	A 9	3201	H 7	4007	B13
1201	H 9	3202	G 9	4009	B 8
1212	I 9	3211	I 7	4033	B17
1500	L27	3212	I 9	4410	M22
1600	J 2	3214	M20	4415	G12
1610	K 6	3220	G10	4634	M 7
2103	D 4	3221	G10	5118	D 5
2105	D 5	3222	G10	5155	A 8
2118	D 6	3227	H15	5157	A10
2119	D 6	3228	H15	5170	A13
2120	D 6	3231	J16	5175	A14
2125	C 9	3232	J16	5190	G 8
2155	B 8	3233	K13	5400	B17
2158	C11	3234	J13	5402	B16
2160	C 7	3235	J17	5403	G12
2161	C 7	3236	L13	5406	C21
2162	C 8	3237	J13	5408	C21
2171	C12	3238	J18	5410	N22
2172	C13	3239	J19	6300	N21
2175	C 2	3240	L14	6301	K12
2176	C14	3241	J12	6464	C24
2177	C15	3242	L13	6471	C 3
2180	F11	3250	K20	7103	E 4
2181	F12	3265	M15	7105	E 5
2185	F 8	3270	M17	7125	C 8
2187	F 8	3275	M19	7126	C 8
2189	F 9	3276	M19	7200	H 8
2196	G11	3300	N26	7210	I 8
2197	H13	3331	N27	7233	I12
2201	H 7	3332	N26	7234	K13
2202	H 9	3335	A23	7235	N 9
2211	I 7	3336	B23	7330	N26
2212	I 9	3337	C23	7335	C23
2220	G10	3338	A23	7337	C23
2222	G10	3340	C24	7338	B24
2227	H16	3341	F 2	7350	H 3
2230	J15	3345	G 2	7380	D26
2232	J17	3353	G 2	7400	D14
2235	J18	3354	H 2	7402	E14
2238	K19	3376	I27	7404	G14
2239	K20	3377	I27	7406	C16
2250	L20	3378	H27	7408	D20
2251	L20	3390	D27	7410	K23
2255	L14	3391	D28	7466	C26
2260	M16	3394	F27	7470	A 3
2270	M17	3395	F27	7471	B 3
2330	O25	3398	G27	7472	A 4
2340	F 2	3399	H27	7473	B 4
2345	G 2	3404	D15	7610	J11
2350	I 2	3405	E15	7630	M13
2351	I 3	3406	L26	7755	K15
2380	I27	3407	L26	9001	A 5
2381	D25	3410	F15	9033	J27
2382	I27	3411	F15	9045	E 2
2383	F25	3412	G15	9404	G13
2384	H27	3414	G15		
2385	H25	3416	G13		
2390	C27	3434	E19		
2391	E25	3436	F19		
2395	E25	3437	E19		
2397	G25	3438	C19		
2399	O27	3440	I16		
2400	C17	3441	I17		
2402	C16	3442	I17		
2404	E15	3444	J23		
2405	E15	3446	J23		
2409	F15	3448	E23		
2410	F15	3448	I23		
2413	H12	3450	H23		
2414	G15	3452	H23		
2415	H15	3454	H24		
2430	I17	3460	B25		
2432	C18	3462	M24		
2434	C16	3463	H24		
2438	B19	3464	I24		
2439	B18	3467	B25		
2440	C19	3470	D 2		
2441	C18	3471	K14		
2442	I17	3472	E23		
2446	C21	3473	L12		
2448	C21	3474	B 5		
2449	N22	3475	B 4		
2450	M24	3476	B 3		
2455	N24	3477	B 4		
2459	N23	3600	M 3		
2466	N21	3601	N 3		
2470	C22	3602	N 5		
2604	N 4	3603	N 5		
2614	N 5	3604	N 4		
2615	M 9	3605	M 2		
2616	M10	3610	M 7		
2618	K 7	3611	M 6		
2619	K 6	3612	N 8		
2620	K11	3613	N 7		
2621	N 3	3614	N 6		
2622	N 2	3615	M11		
2623	N 8	3616	M10		
2624	N13	3617	N10		
2625	G13	3618	J 8		
2627	L13	3619	J 9		
3100	E 5	3620	K11		
3103	C 5	3621	M 8		
3104	C 5	3622	K12		
3105	C 5	3624	L13		
3106	E 6	3625	M 6		
3107	E 6	3630	N12		
3108	E 6	3631	N12		
3155	A 8	3632	N12		
3156	B 9	3633	E14		
3157	B12	3634	F14		
3158	B11	3635	N10		
3170	A12	3636	M 6		
3175	A15	3637	K12		
3195	G11	3638	L12		
3196	H14	4001	N11		
3200	H 7	4005	H 8		

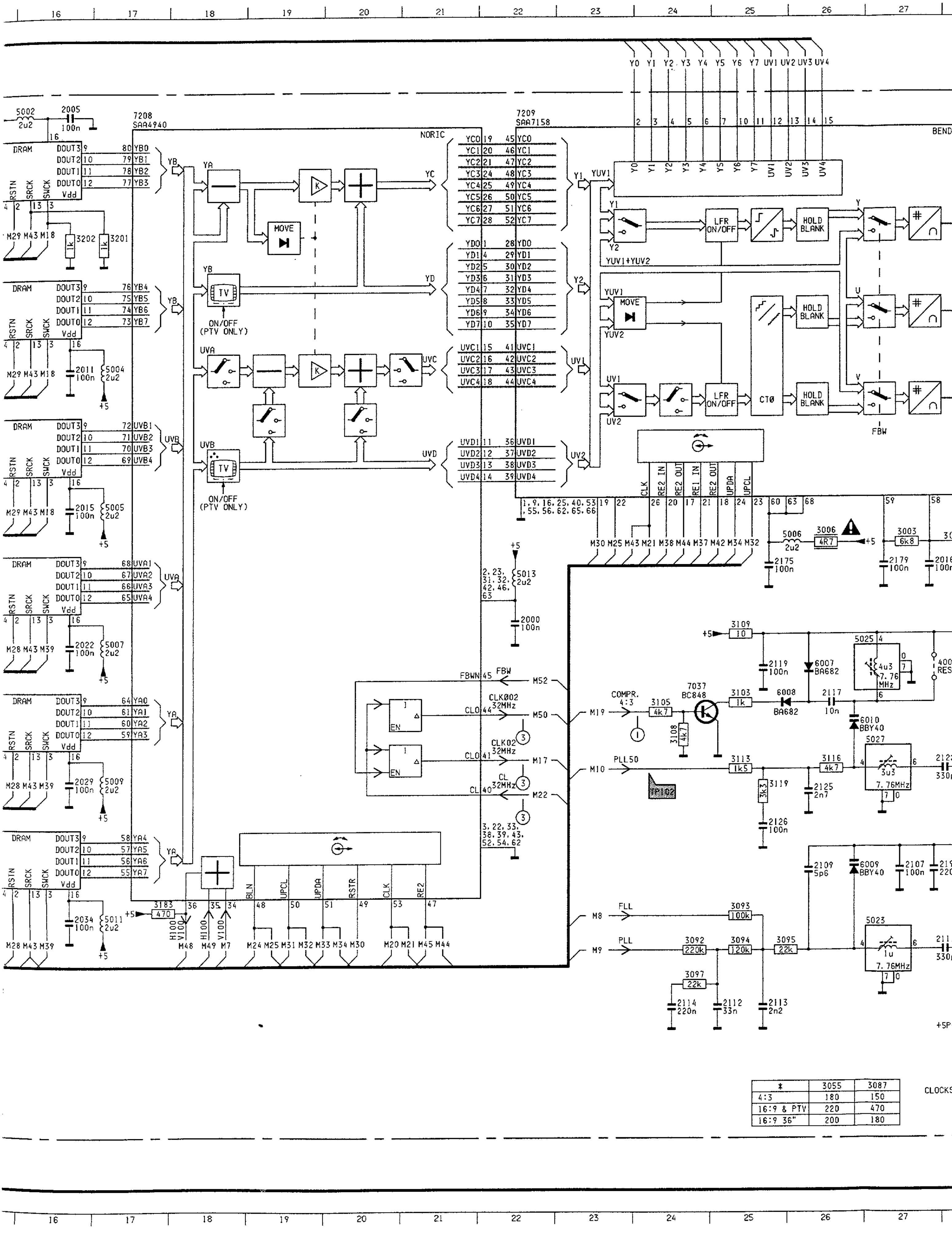
LFR box FLx.24/.26 (Digital Scan)


M
D
M53
M40
BL4680
3068 10k
3075 10k
3101 1k2
7026 BC848B
7035 BC858C
2091 1n
2152 100n
2105 100n
2103 220u
3089
+13
+5
5001 2u2
2187 330u
2001 100n
2002 100n
2003 100n
2004 100n
7207 SDA9205
A/D
57 CLK0 16/12MHz
DSP
8H22
3H22
Y_IN
5030 3u9
7036 BC848C
2170 12p
7038 BC848C
3104 330
3102 2k2
TP108
2115 220n
Y
29 TEST1
27 TEST2
25 IN
26 REFL
22 REFH
A
B
C
5H22
9H22
2133 27p
2116 180p
2132 330p
3163 2k2
3106 1k5
3107 220
3110 680
2123 100n
U
TP113
21 IN
20 REFL
16 REFH
2H22
U_IN
5031 3u9
3114 91
7039 BC848C
2131 27p
2124 150p
2130 390p
3118 270
3120 270
2127 100n
V
TP115
15 IN
14 REFL
10 REFH
3007 20
2023 100n
2185 47u
2151 47p
4H22
V_IN
5032 3u9
3125 75
7042 BC848C
7000 BC848C
2186 47U
2018 100N
6H22 COINC
7H22
10H22 CVBS
1H22 FBL
2136 27p
2128 150p
2134 390p
3127 430
3128 270
2150 47u
2014 100n
6000 LL-4148
3000 1K6
3002 2K4
5000 22u
2006 330u
2007 100n
23 VCCA
18 VCCB
12 VCCC
24 AGNA
19 AGNB
13 AGNC
VCCA
+5
M35
L56
L61
L58
+5P
2083 100n
2084 100n
7120 PCB83C652
31,40
7219 UPD91237C
13,48
2086 27p
1001 12MHz
2087 27p
G
12MHz
RESET
DATA PROC.
DIV.
RST
16MHz CLK0
M16
M39
M12
7022 BC848B
3058 4k7
FBL
M35
3060 12k
2085 100n
M14
3057 4k7
M53 BL4680
M6 V50
M19 COMPR. 4.3
M13 BK50
L57 SCAN PEAKING ON/OFF
M41 FBW
M23
L55 SCL
L54 SDA
M33 UPDA
M31 UPCL
L66 FRAME
M12
M11
M30 RSTR
M29 RSTN2
M28 RSTN1
V0 COUNTER CONTATORE
24,25,34,47
INT LOG
VU COUNTER CONTATORE
GATE
MC1
HI
WE1 M26
FSY M27
PLL50 M10
BK50
BL50 L62
WE2 M36
RE1-IN M37
3096 47
2166 47p
3071 0
H100 L63
BLN M24
RE2-IN M38
PLL M9
BK50 L60
M13
COUNTER CONTATORE
RESET RIMESSA A ZERO
MC2
HU
TP114
TP104
H100
M49
3059 1k
2)
CONT0
CONT1
CONT2
CONT3
FSY
KLEMM
FBW
M52 M41
M27
M14
WATCHDOG
3079 470
3078 22k
2092 10u
6004 LL-4148
3074 2k7
6013 5V6
TP101
M11
2088 22n
7024 BC858
7025 BC858
7027 BC848
6014 1N4148
3064 100k
3076 220
3065 22k
3066 2k4
3203 1k
+5P
V50
V100
CLK02 32MHz
CLK0 32MHz
FLL
H100/V100
3062 10k
3061 6k2
2164 10p
3063 470
7023 BC858C
2163 220n
3067 10k
3083 2k2
3082 2k2
3084 47k
7221 LM833N
2096 2n2
3086 47k
2102 2n2
3004 4k7
7029 BC848B
5033 10u
3228 1k8
2090 47p
CS100
3087
M6 L59 M7 M50 L64
M20 M8 M48
L65

LFR box FLx.24/.26 (Digital Scan)

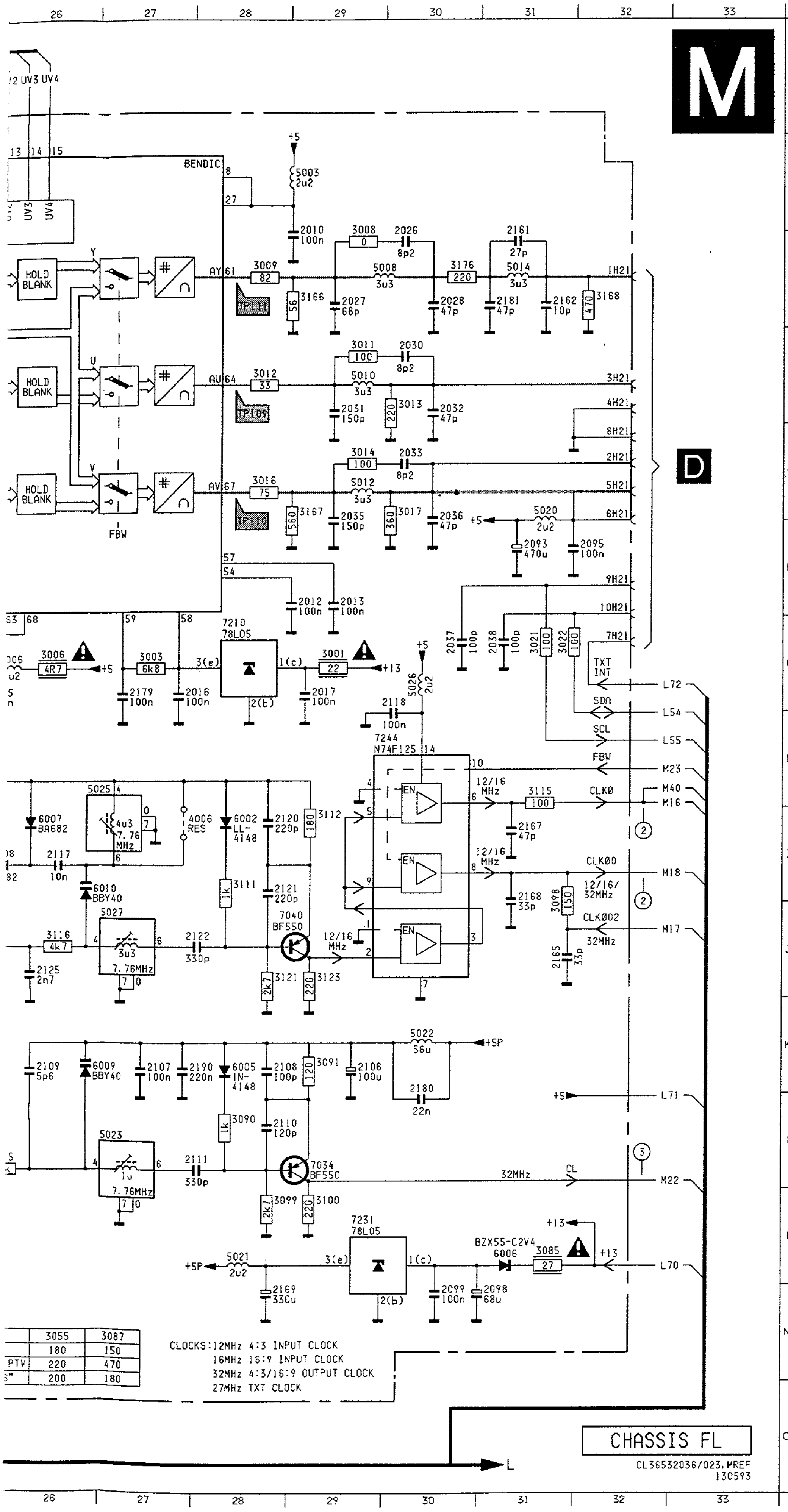

11
12
13
14
15
16
17
18
19
20
21
22
M40
205
57
CLK0 16/12MHz
DSP
C
C0 2
C1 1
C2 68
C3 67
OENC 6
DTC 7
C4 66
C5 65
C6 64
C7 63
B
B0 55
B1 54
B2 53
B3 52
OENB 44
DTB 60
B4 51
B5 50
B6 49
B7 48
A
A0 41
A1 40
A2 39
A3 38
OENA 42
DTA 28
A4 37
A5 36
A6 35
A7 34
CONT0
CONT1
CONT2
CONT3
FSY
KLEMM
17 11 9 8 59 30
FBW
FSY
M52 M41
M27
5002
2u2
2005
100n
+5
7201
TMS4C1050
DRAM
16MHz
DIN3 DIN2 DIN1 DIN0
DOUT3 DOUT2 DOUT1 DOUT0
Vss Vdd
RE WE RSTR RSTN SRCK SWCK
Y0 Y1 Y2 Y3
YB0 YB1 YB2 YB3
M45 M36 M30 M29 M43 M18
3202 1k
3201 1k
7202
TMS4C1050
Y4 Y5 Y6 Y7
YB4 YB5 YB6 YB7
2011 100n
5004 2u2
7203
TMS4C1050
UV1 UV2 UV3 UV4
UVB1 UVB2 UVB3 UVB4
2015 100n
5005 2u2
7204
TMS4C1050
32MHz
UVA1 UVA2 UVA3 UVA4
M42 M26 M30 M28 M43 M39
2022 100n
5007 2u2
7205
TMS4C1050
YA0 YA1 YA2 YA3
2029 100n
5009 2u2
7206
TMS4C1050
YA4 YA5 YA6 YA7
2034 100n
5011 2u2
7208
SAA4940
NORIC
YB
YA
UVB
UVA
MOVE
TV
ON/OFF
(PTV ONLY)
YC
YD
UVC
UVD
3183
470
H100
V100
M48 M49 M7
BLN
UPCL
UPDA
RSTR
CLK
RE2
48 50 51 49 53 47
M24 M25 M31 M32 M33 M34 M30
M20 M21 M45 M44
7209
SAA7158
YC0 YC1 YC2 YC3 YC4 YC5 YC6 YC7
YD0 YD1 YD2 YD3 YD4 YD5 YD6 YD7
UVC1 UVC2 UVC3 UVC4
UVD1 UVD2 UVD3 UVD4
Y1
Y2
UV1
UV2
1, 9, 16, 25, 40, 53, 55, 56, 62, 65, 66
2, 23, 31, 32, 42, 46, 63
5013
2u2
2000
100n
FBWN 45
FBW
M52
CLK002
32MHz
CLO 44
M50
CLK02
32MHz
CLO 41
M17
CL
32MHz
CL 40
M22
EN
3, 22, 33, 38, 39, 43, 52, 54, 62
1
33N
+13
8
2094
100n
7030
BC548
3181
100
IL
L69
2097
1n
3087
3055
+5
4
5
6
7

LFR box FLx.24/.26 (Digital Scan)


7208
SAA4940
NORIC
7209
SAA7158
DRAM
DOUT3
DOUT2
DOUT1
DOUT0
Vdd
RSTN
SRCK
SWCK
YB
YA
UVB
UVA
YC
YD
UVC
UVD
MOVE
TV
ON/OFF
(PTV ONLY)
K
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 UV1 UV2 UV3 UV4
YUV1
YUV2
YUV1+YUV2
LFR ON/OFF
HOLD BLANK
CTØ
FBW
BEND
CLK
RE2 IN
RE2 OUT
RE1 IN
UPDA
UPCL
BLN
RSTR
RE2
FBWN
CLK002 32MHz
CLK02 32MHz
CL 32MHz
EN
COMPR. 4:3
7037
BC848
PLL50
TP102
FLL
PLL
5025
5027
5023
7.76MHz
BA682
BBY40
400
RES
+5
+5P
CLOCKS

*	3055	3087
4:3	180	150
16:9 & PTV	220	470
16:9 36"	200	180

LFR box FLx.24/.26 (Digital Scan)

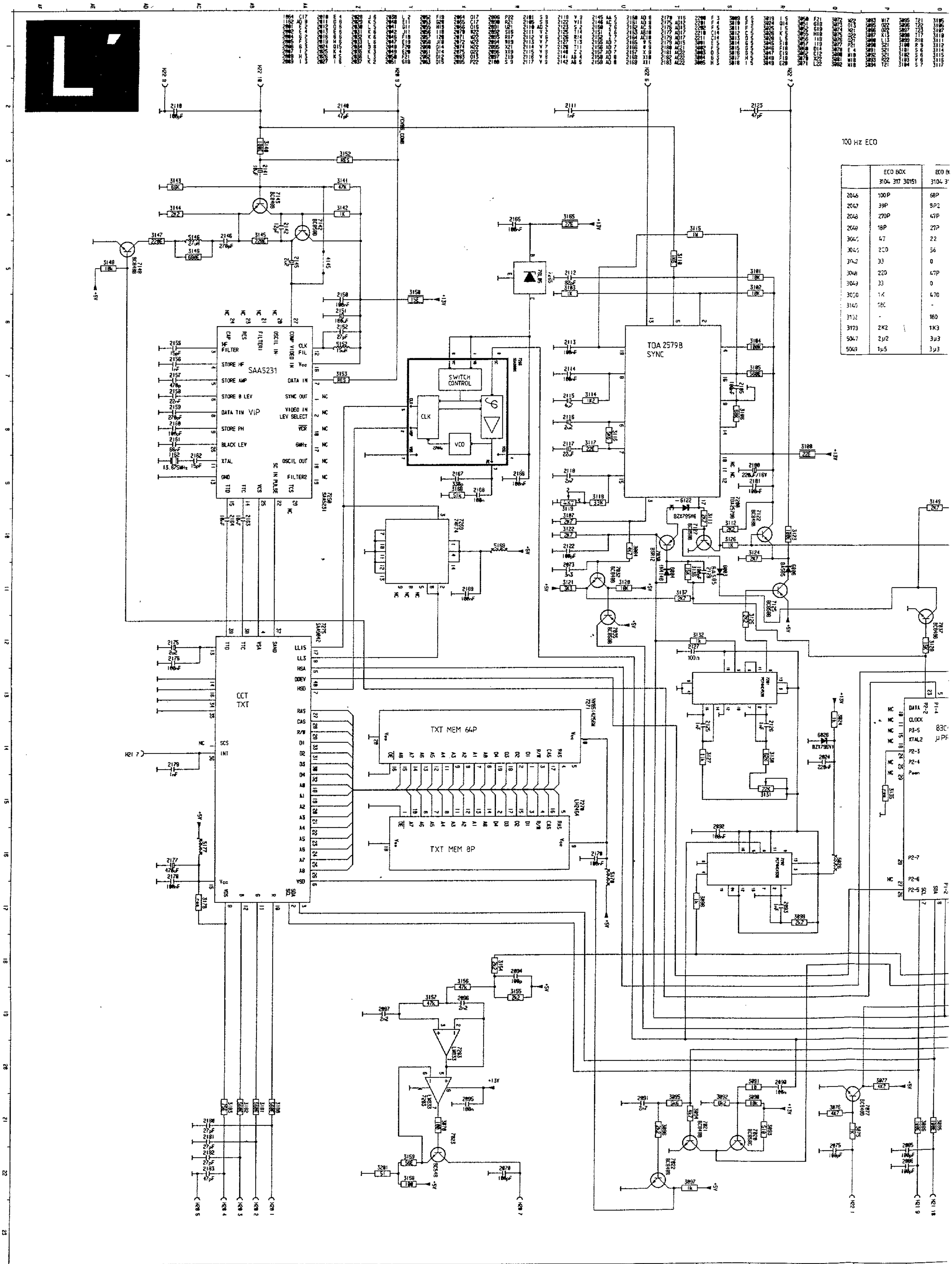

26
27
28
29
30
31
32
33
M
D
UV3 UV4
13 14 15
BENDIC
HOLD BLANK
Y
U
V
FBW
AY 61
AU 64
AV 67
TP111
TP109
TP110
3009 82
3012 33
3016 75
+5
5003 2u2
2010 100n
3008 0
2026 8p2
5008 3u3
3176 220
2161 27p
5014 3u3
3166 56
2027 68p
2028 47p
2181 47p
2162 10p
3168 470
1H21
3011 100
2030 8p2
5010 3u3
2031 150p
3013 220
2032 47p
3H21
4H21
8H21
3014 100
2033 8p2
5012 3u3
3167 560
2035 150p
3017 360
2036 47p
2H21
5H21
6H21
5020 2u2
2093 470u
2095 100n
57
54
2012 100n
2013 100n
9H21
10H21
7H21
2037 100p
2038 100p
3021 100
3022 100
59
58
68
7210 78L05
3006 4R7
3003 6k8
3001 22
3(e)
1(c)
2(b)
+13
2179 100n
2016 100n
2017 100n
5026 2u2
2118 100n
7244 N74F125
14
10
EN
12/16 MHz
3115 100
CLK0
2167 47p
CLK00
12/16/ 32MHz
2168 33p
3098 150
CLK002
32MHz
2165 33p
TXT INT
SDA
SCL
FBW
L72
L54
L55
M23
M40
M16
M18
M17
5025
4u3 7.76 MHz
6007 BA682
4006 RES
6002 LL-4148
2120 220p
3112 180
2117 10n
6010 BBY40
3111 1k
2121 220p
5027
3116 4k7
3u3 7.76MHz
2122 330p
7040 BF550
2125 2n7
3121 2k7
3123 220
5022 56u
+5P
2109 5p6
6009 BBY40
2107 100n
2190 220n
6005 IN-4148
2108 100p
3091 120
2106 100u
2180 22n
+5
L71
3090 1k
2110 120p
5023
1u 7.76MHz
2111 330p
7034 BF550
32MHz
CL
M22
3099 2k7
3100 220
7231 78L05
BZX55-C2V4 6006
3085 27
+13
L70
5021 2u2
2169 330u
2099 100n
2098 68u
3055 3087
180 150
PTV 220 470
200 180
CLOCKS:12MHz 4:3 INPUT CLOCK
16MHz 16:9 INPUT CLOCK
32MHz 4:3/16:9 OUTPUT CLOCK
27MHz TXT CLOCK
L
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

CHASSIS FL

CL36532036/023.MREF
130593

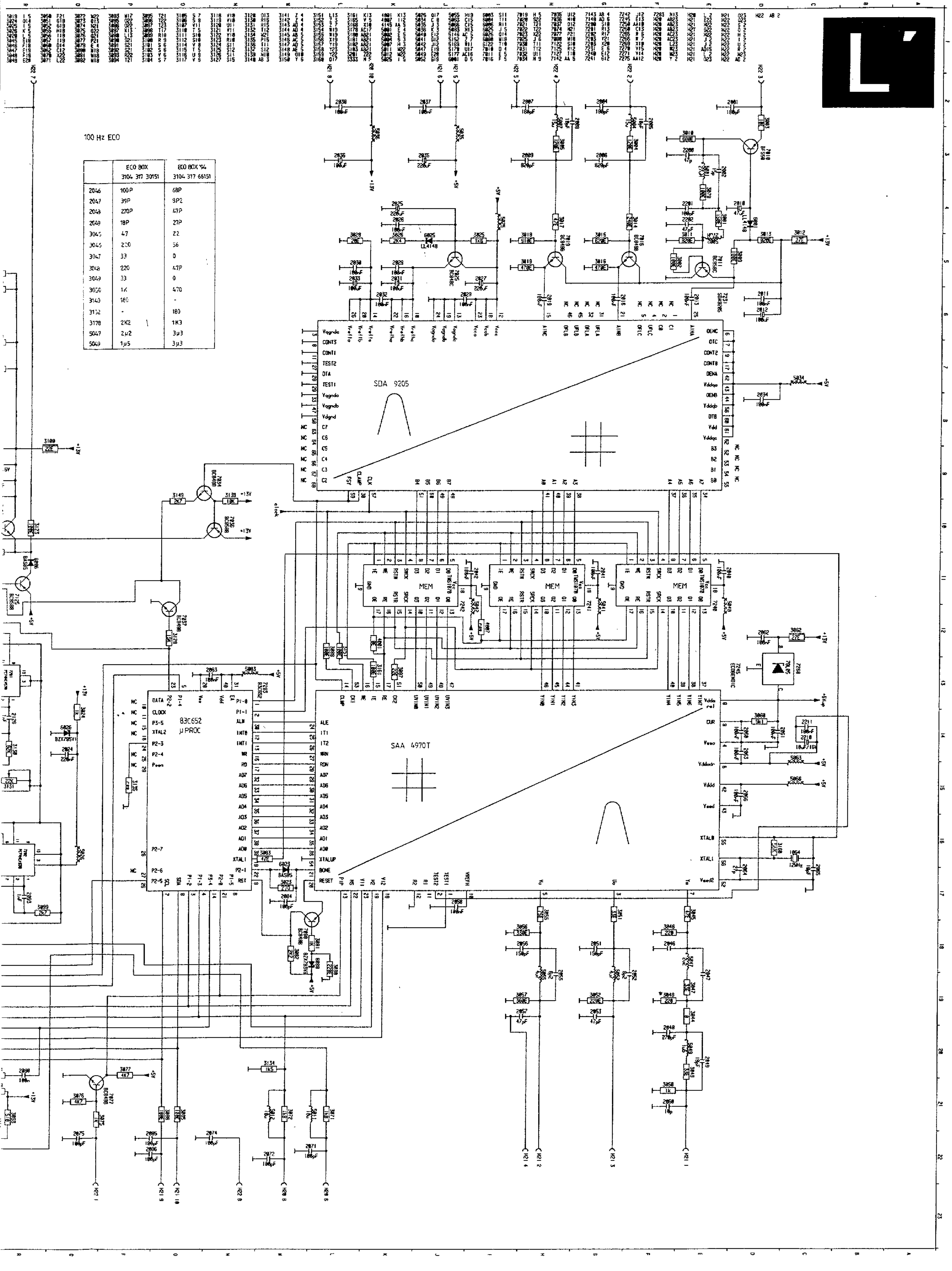
1001	H 2	3021	G31	7026	B 4
2000	H22	3022	G31	7027	M 4
2001	B 9	3055	N13	7029	N 8
2002	B 9	3057	I 2	7030	M13
2003	B 9	3058	I 9	7034	L29
2004	B10	3059	L 2	7035	B 5
2005	B16	3060	I 9	7036	C 5
2006	G 9	3061	M 6	7037	I24
2007	G10	3062	M 8	7038	C 6
2010	C29	3063	M 8	7039	E 5
2011	E16	3064	N 2	7040	J29
2012	F29	3065	N 4	7042	F 5
2013	F29	3066	N 4	7120	H 3
2014	F 8	3067	M 7	7201	B14
2015	G16	3068	B 4	7202	D14
2016	G27	3071	K 9	7203	E14
2017	G29	3074	M 4	7204	G14
2018	F10	3075	C 4	7205	I14
2022	H16	3076	N 3	7206	K14
2023	E 9	3078	M 3	7207	B11
2026	C30	3079	M 2	7208	B17
2027	C29	3082	M 9	7209	B22
2028	C30	3083	M 9	7210	G28
2029	J16	3084	M 9	7219	H 6
2030	D30	3085	M31	7221	M11
2031	D29	3086	N10	7231	M29
2032	D30	3087	N12	7244	H29
2033	E30	3089	B 7		
2034	L16	3090	L28		
2035	F29	3091	K29		
2036	F30	3092	L24		
2037	G30	3093	L25		
2038	G31	3094	L25		
2083	H 4	3095	L25		
2084	H 8	3096	K 6		
2085	I10	3097	M24		
2086	H 2	3098	I31		
2087	I 2	3099	M28		
2088	N 2	3100	M29		
2090	N 9	3101	B 5		
2091	C 3	3102	C 6		
2092	M 2	3103	I25		
2093	F31	3104	C 5		
2094	M13	3105	I24		
2095	F32	3106	D 4		
2096	M10	3107	D 5		
2097	N14	3108	J24		
2098	N31	3109	H25		
2099	N30	3110	D 7		
2102	N10	3111	I28		
2103	B 7	3112	I29		
2105	B 6	3113	J25		
2106	K29	3114	E 4		
2107	K27	3115	H31		
2108	K28	3116	J26		
2109	K26	3118	E 5		
2110	L28	3119	J25		
2111	L28	3120	E 5		
2112	M25	3121	J28		
2113	M25	3123	J29		
2114	M24	3125	F 4		
2115	D 8	3127	G 5		
2116	D 3	3128	G 5		
2117	I26	3163	D 3		
2118	G30	3166	C29		
2119	I25	3167	E29		
2120	I28	3168	C32		
2121	I28	3176	C30		
2122	J28	3181	M13		
2123	D 8	3183	L17		
2124	E 3	3201	C17		
2125	J26	3202	C16		
2126	K25	3203	N 4		
2127	E 8	3228	N 8		
2128	G 3	4006	I27		
2130	E 4	5000	G 9		
2131	E 4	5001	B 8		
2132	D 4	5002	B16		
2133	D 4	5003	B29		
2134	G 4	5004	E17		
2136	F 4	5005	G17		
2150	F 7	5006	G26		
2151	E10	5007	H17		
2152	B 6	5008	C29		
2161	C31	5009	J17		
2162	C31	5010	D29		
2163	M 7	5011	L17		
2164	M 7	5012	E29		
2165	J31	5013	G22		
2166	L 6	5014	C31		
2167	I31	5020	E31		
2169	N28	5021	M28		
2170	C 5	5022	K30		
2175	G25	5023	L27		
2179	G27	5025	H26		
2180	K30	5026	G30		
2181	C31	5027	J27		
2185	E 9	5030	C 4		
2186	F 9	5031	E 4		
2187	B 8	5032	F 4		
2190	K27	5033	N 8		
3000	F 9	6000	F 8		
3001	G29	6002	I28		
3002	G 8	6004	M 4		
3003	G27	6006	M31		
3004	N 7	6007	I26		
3006	G26	6008	I25		
3007	E 9	6009	K26		
3008	C29	6010	I26		
3009	C28	6013	M 4		
3011	D29	6014	N 4		
3012	D28	7000	F 9		
3013	D30	7022	I 9		
3014	E29	7023	M 8		
3016	E28	7024	N 3		
3017	E30	7025	N 3		

100 Hz / TXT (FLx.27)


L'
SAA5231
ViP
TDA 2579B
SYNC
SWITCH CONTROL
CLK
VCO
CCT
TXT
TXT MEM 64P
TXT MEM 8P
+5V
+13V

100 Hz ECO

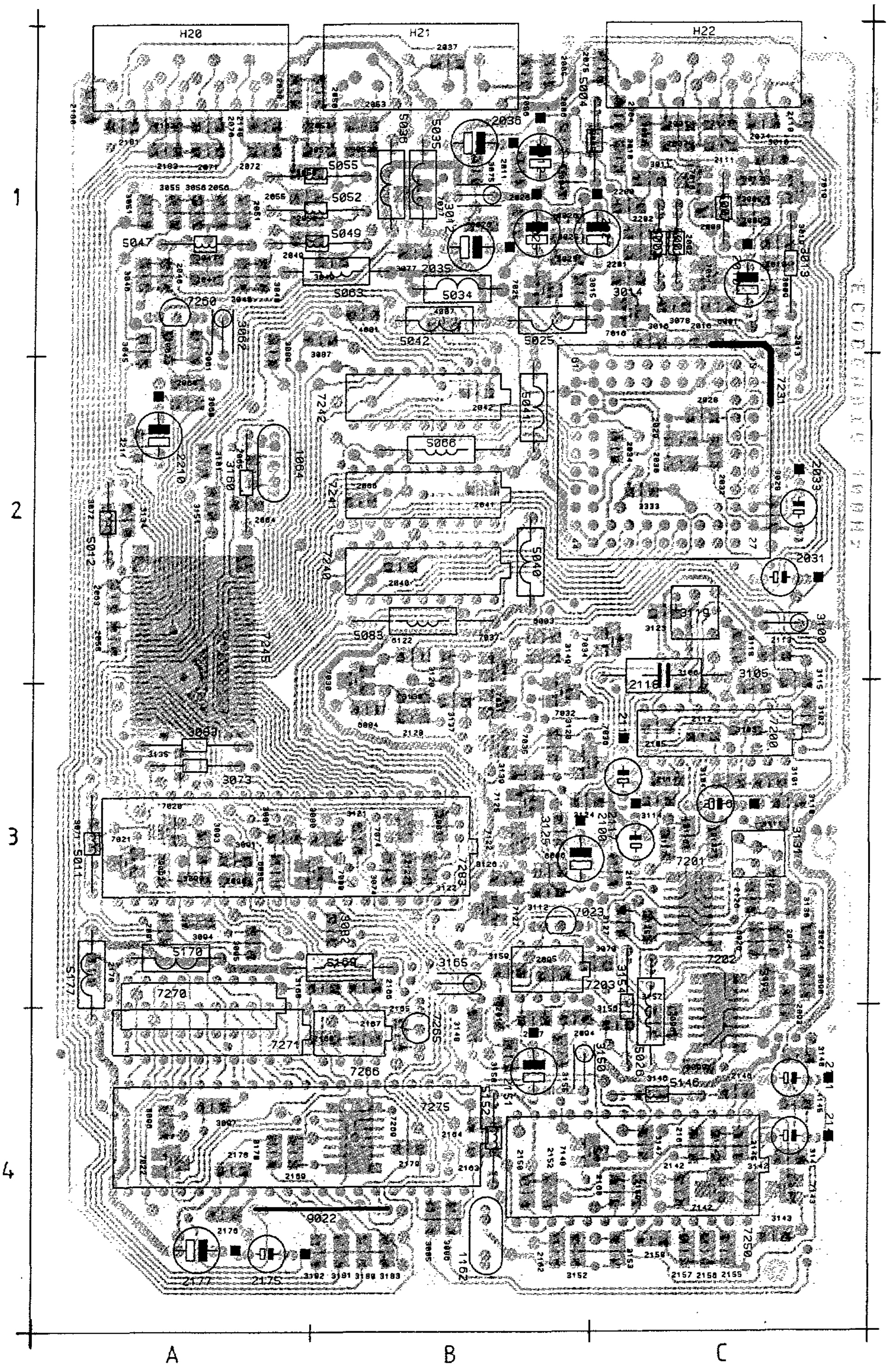
	ECO BOX 3104 317 30151	ECO B 3104 3
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	220	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3132	-	180
3173	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3


L'
SDA 9205
SAA 4970T
MEM
MEM
MEM
83C652
µ PROC
+5V
+13V
clock

100 Hz ECO

	ECO BOX 3104 317 30151	ECO BOX '94 3104 317 66151
2046	100P	68P
2047	39P	8P2
2048	270P	47P
2049	18P	27P
3045	47	22
3046	220	56
3047	33	0
3048	220	47P
3049	33	0
3050	1K	470
3140	180	-
3152	-	180
3178	2K2	1K3
5047	2µ2	3µ3
5049	1µ5	3µ3

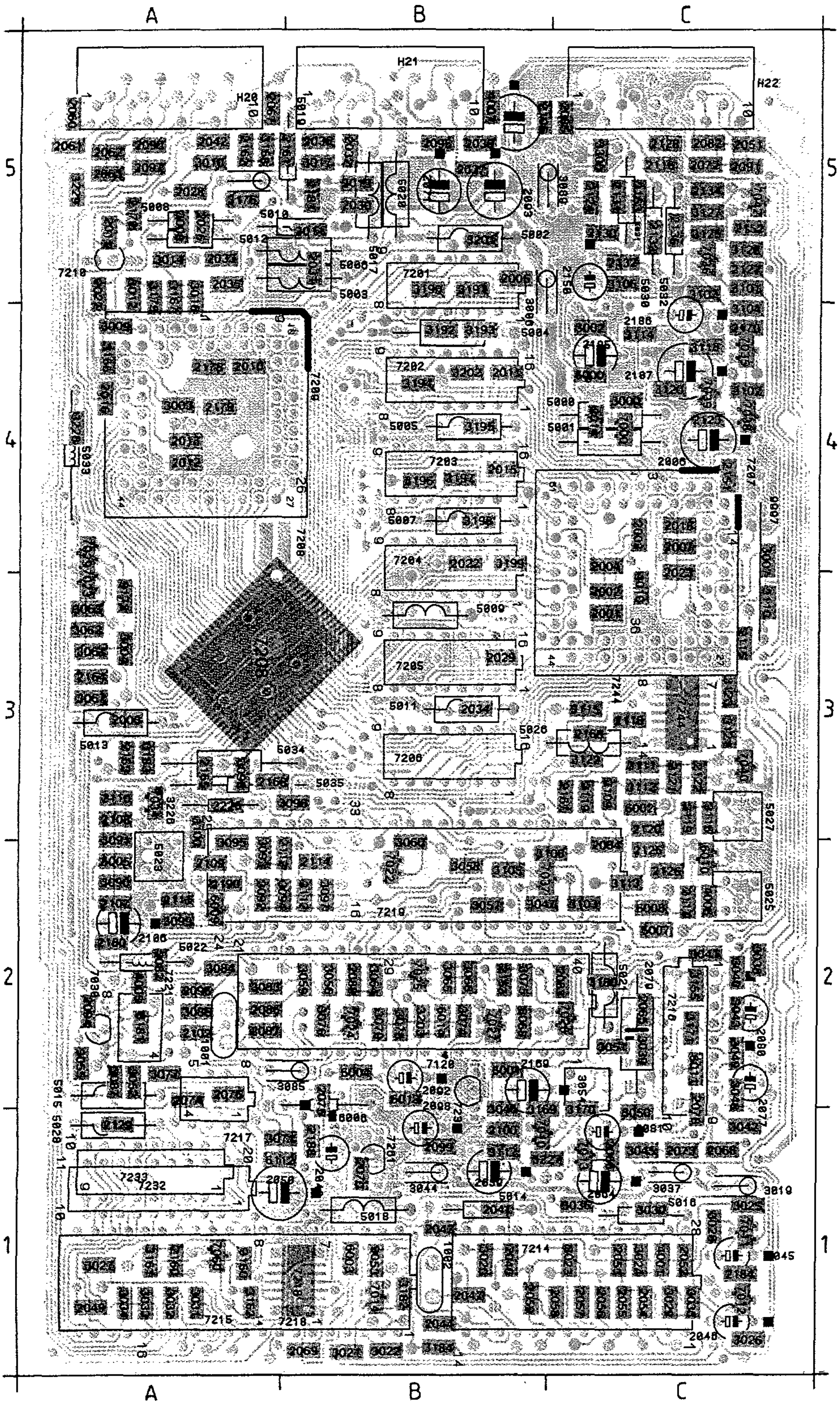
100 Hz / TXT



H20 A1	2013 C1	2037 B1	2058 A2	2090 A3	2115 C3	2151 B4	2169 A4	3004 B1
H21 B1	2016 C1	2038 A1	2060 A2	2091 A3	2116 C3	2152 B4	2170 A3	3005 C1
H22 C1	2019 C1	2040 B2	2061 A1	2092 C3	2117 C3	2155 C4	2175 A4	3009 C1
1064 A2	2024 C3	2041 B2	2062 A1	2093 C3	2118 C2	2156 C4	2176 A4	3010 C1
1162 B4	2025 B1	2042 B2	2063 A2	2094 B4	2122 B3	2157 C4	2177 A4	3011 C1
2001 C1	2026 B1	2046 A1	2064 A2	2095 B3	2123 C1	2158 C4	2178 A4	3012 B1
2002 C1	2027 C1	2047 A1	2065 A2	2096 C4	2125 C3	2159 C4	2179 B4	3013 C1
2004 C1	2028 C2	2048 A1	2066 B2	2097 B4	2126 C3	2160 C4	2181 A1	3014 C1
2005 C1	2029 C2	2049 A1	2070 A1	2100 B3	2127 C3	2161 C4	2182 A1	3015 B1
2006 B1	2030 C2	2050 B1	2071 A1	2101 C3	2128 B3	2162 B4	2183 A1	3016 C1
2007 C1	2031 C2	2051 A1	2072 A1	2105 C3	2140 A1	2163 B4	2200 C1	3017 C1
2008 C1	2032 C2	2052 A1	2074 C1	2110 C1	2141 C4	2164 B4	2201 C1	3018 C1
2009 C1	2033 C2	2053 B1	2075 C1	2111 C1	2142 C4	2165 B4	2202 C1	3019 C1
2010 C1	2034 C2	2055 A1	2083 B3	2112 C3	2145 C4	2166 B3	2210 A2	3024 C3
2011 B1	2035 B1	2056 A1	2085 B1	2113 C2	2146 C4	2167 B4	2211 A2	3025 B1
2012 B1	2036 B1	2057 B1	2086 B1	2114 C3	2150 B4	2168 B4	3003 C1	3026 B1

3028 C2	3159 B3
3045 A1	3160 A2
3046 A1	3161 A2
3047 A1	3165 B3
3048 A1	3168 B3
3049 B1	3178 A4
3050 A1	3180 B4
3051 A1	3181 B4
3052 B1	3182 B4
3055 A1	3183 B4
3056 A1	3201 B4
3057 B1	3333 C2
3060 A2	4001 B1
3062 A1	4007 B1
3070 C3	4145 C4
3071 A3	5001 C1
3072 A2	5002 C1
3073 A3	5004 C1
3074 B3	5007 C1
3075 B1	5011 A3
3076 B1	5012 A2
3077 B1	5025 B1
3078 C1	5026 C4
3080 B3	5034 B1
3081 A3	5035 B1
3082 B3	5036 B1
3083 A3	5040 B2
3085 B4	5041 B2
3086 B4	5042 B1
3087 B1	5047 A1
3088 A1	5049 B1
3090 A3	5052 B1
3091 A3	5055 B1
3092 A3	5063 B1
3093 A3	5066 B2
3094 A3	5083 B2
3095 A3	5146 C4
3096 A4	5152 B4
3097 A4	5169 B3
3098 C3	5170 A3
3099 C4	5177 A3
3100 C2	6001 C1
3101 C3	6003 B2
3102 C3	6004 B3
3103 C3	6006 B3
3104 C3	6025 B1
3105 C3	6026 C3
3106 C3	6080 A3
3110 C3	6122 B2
3111 C3	7010 C1
3112 B3	7011 C1
3114 C3	7016 C1
3115 C3	7019 C1
3116 C3	7020 A3
3117 C3	7021 A3
3118 C2	7022 A4
3119 C2	7023 B3
3120 B3	7025 B1
3121 B3	7030 B2
3122 B3	7031 B3
3123 C2	7032 B3
3124 B3	7034 C2
3125 B3	7035 B3
3126 B3	7036 B3
3127 C3	7037 B2
3128 B2	7074 B3
3130 C3	7077 B1
3131 C3	7080 B3
3132 C3	7122 B3
3134 A2	7125 B3
3135 A3	7127 B3
3136 B3	7142 C4
3137 B3	7143 C4
3139 B3	7148 C4
3140 C4	7200 C3
3141 C4	7201 C3
3142 C4	7202 C4
3143 C4	7203 B3
3144 C4	7231 C2
3145 C4	7240 B2
3146 C4	7241 B2
3147 C4	7242 B2
3148 B4	7245 A2
3149 B2	7250 C4
3150 B4	7260 A1
3151 A2	7265 B4
3152 B4	7266 B4
3153 C4	7269 B4
3154 C4	7270 A3
3155 B4	7271 A4
3156 C4	7275 A4
3157 C4	7283 A3
3158 B4	9022 B4

LFR box



H20	A5	2013	A4	2034	B3	2050	A1	2067	A5	2083	C2	2100	B1	2118	C3	2134	C5
H21	B5	2014	C4	2035	A5	2051	C5	2068	C1	2084	C2	2102	A2	2119	C3	2136	C5
H22	C5	2015	B4	2036	B5	2052	C1	2069	B1	2085	C5	2103	B5	2120	C3	2150	C5
1001	A2	2016	A4	2037	B5	2053	C1	2070	B1	2086	A2	2105	B5	2121	C3	2151	C4
1002	B1	2017	A5	2038	B5	2054	C1	2071	B5	2087	A2	2106	A2	2122	C3	2152	C5
2000	A3	2018	C4	2039	B1	2055	C1	2072	C5	2088	B2	2107	A2	2123	C4	2153	B2
2001	C3	2022	B4	2040	B1	2056	C1	2073	C1	2090	A5	2108	A3	2124	C5	2160	A1
2002	C3	2023	C4	2041	B1	2057	C1	2074	A2	2091	C5	2109	A2	2125	C2	2161	A5
2003	C4	2026	A5	2042	A5	2058	C1	2075	B2	2092	B2	2110	A3	2126	C2	2162	A5
2004	C4	2027	A5	2043	B1	2059	B1	2076	A2	2093	B5	2111	A2	2127	C5	2163	A3
2005	B5	2028	A5	2044	B1	2060	A5	2077	C2	2094	A2	2112	B2	2128	C5	2164	A3
2006	C4	2029	B3	2045	C1	2062	A5	2078	C1	2095	B5	2113	A2	2129	A1	2165	A3
2007	C4	2030	B5	2046	C1	2063	A5	2079	C2	2096	A2	2114	B2	2130	C5	2166	A3
2010	A4	2031	B5	2047	B1	2064	C1	2080	C2	2097	A5	2115	C3	2131	C5	2167	C3
2011	B4	2032	B5	2048	B1	2065	C2	2081	C1	2098	B1	2116	C5	2132	C5	2168	C3
2012	A4	2033	A5	2049	A1	2066	C1	2082	C5	2099	B1	2117	C2	2133	C5	2169	B2

2170	C4	3092	A2	5018	B1
2172	A5	3093	A2	5019	B5
2175	A4	3094	A2	5020	B5
2179	A4	3095	A2	5021	C2
2180	A2	3096	B3	5022	A2
2181	B5	3097	B2	5023	A2
2184	C1	3098	A3	5025	C2
2185	C4	3099	A2	5026	C3
2186	C4	3100	A3	5027	C3
2187	C4	3101	C5	5028	A1
2188	B1	3102	C4	5030	C5
2190	A2	3103	C2	5031	C5
2226	A3	3104	C4	5032	C5
3000	C4	3105	B2	5033	A4
3001	A5	3106	C5	5034	A3
3002	C4	3107	C5	5035	A3
3003	A4	3108	B2	6000	C4
3004	A3	3109	C3	6001	B2
3006	B5	3110	C3	6002	C3
3007	C4	3111	C3	6003	B1
3008	A5	3112	C3	6004	B2
3009	A4	3113	C2	6005	A2
3010	A5	3114	C4	6006	B2
3011	B5	3115	C3	6007	C2
3012	A5	3116	C3	6008	C2
3013	B5	3117	B1	6009	A2
3014	A5	3118	C4	6010	C2
3016	A5	3119	C3	6011	C2
3017	B5	3120	C4	6013	B2
3019	C1	3121	C3	6014	B2
3020	B1	3122	C3	6112	A1
3021	B1	3123	C3	7000	C4
3022	B1	3125	C5	7010	B1
3023	C1	3127	C5	7011	C1
3024	C1	3128	C5	7012	C1
3025	C1	3155	C2	7013	C1
3026	C1	3160	A1	7014	B1
3027	A1	3161	A1	7022	B2
3028	C1	3162	A1	7023	A3
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3031	A1	3167	A5	7026	C2
3032	A1	3168	A5	7027	B2
3033	A1	3169	B1	7029	A4
3034	A1	3170	C1	7030	A2
3035	C1	3171	C2	7034	A3
3036	C1	3172	A3	7035	C4
3037	C1	3175	A5	7036	C5
3038	C2	3176	A5	7037	B2
3039	C2	3180	C2	7038	C4
3040	C2	3181	A2	7039	C4
3041	C2	3182	B1	7040	C3
3042	C1	3183	A3	7042	C5
3043	C2	3184	B1	7060	A1
3044	B1	3190	B5	7120	B2
3045	C1	3191	B5	7201	B5
3046	B1	3192	B4	7202	B4
3047	B2	3193	B4	7203	B4
3048	C2	3194	B4	7204	B4
3049	C2	3195	B4	7205	B3
3050	C1	3196	B4	7206	B3
3051	C2	3197	B4	7207	C4
3052	A2	3198	B4	7208	A3
3053	B1	3199	B4	7209	A4
3054	C2	3201	B5	7210	A5
3055	A2	3202	B4	7214	C1
3056	B2	3203	B2	7215	A1
3057	B2	3226	A3	7216	C2
3058	B2	3227	B1	7217	A2
3059	B2	3228	A4	7218	B1
3060	B2	3229	A5	7219	B2
3061	A3	3300	C5	7221	A2
3062	A3	4001	C1	7231	B2
3063	A3	4005	A2	7232	A1
3064	B2	4006	C2	7233	A1
3065	B2	4007	B5	7244	C3
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3075	B2	5004	B4		
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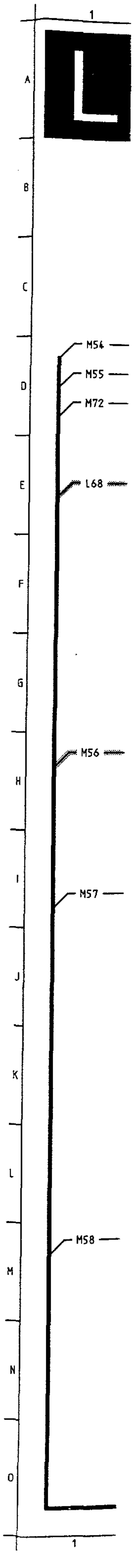
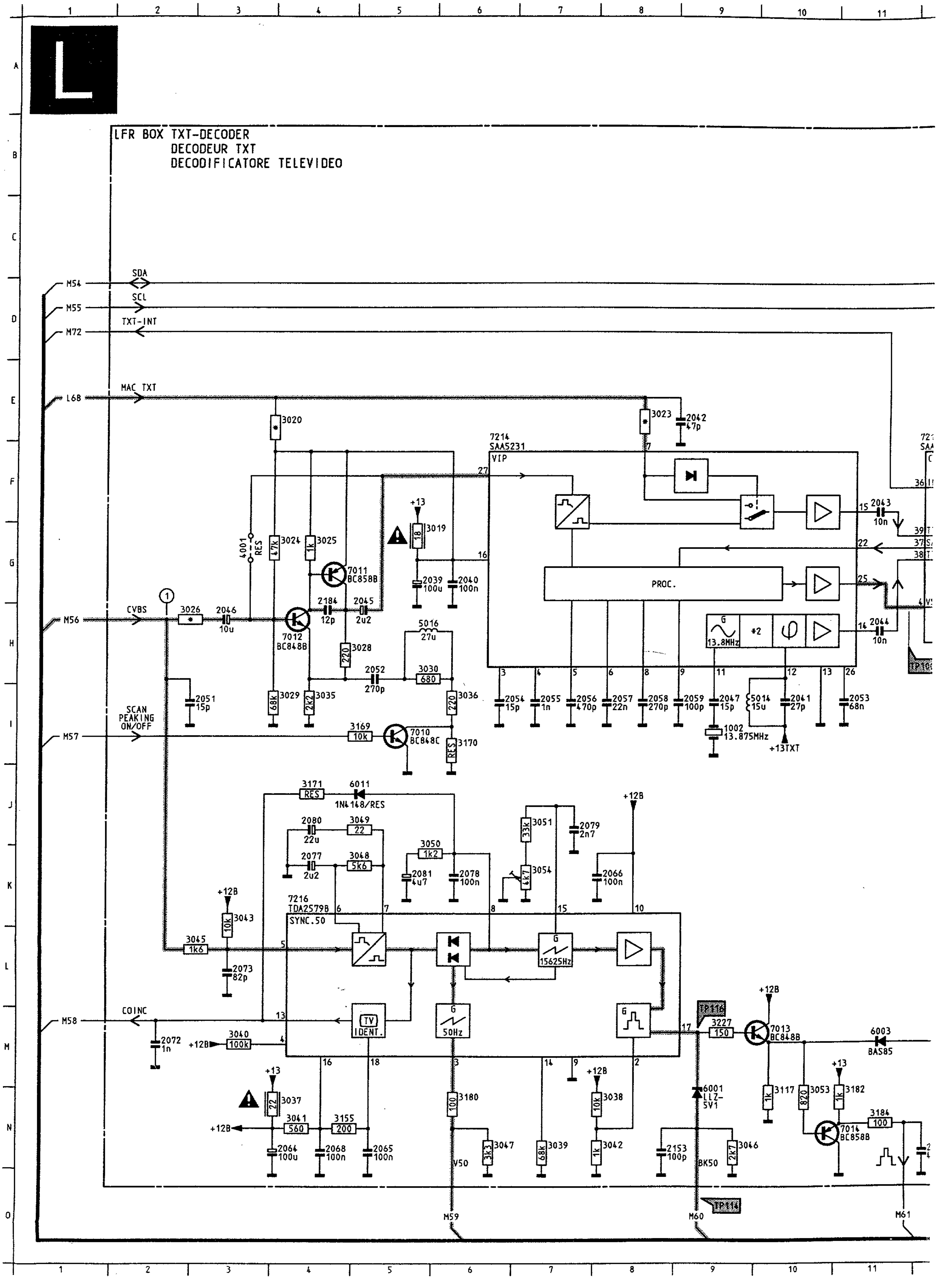


LFR box (Digital Scan)


L
LFR BOX TXT-DECODER
DECODEUR TXT
DECODIFICATORE TELEVIDEO
M54
SDA
M55
SCL
M72
TXT-INT
L68
MAC TXT
M56
CVBS
M57
SCAN PEAKING ON/OFF
M58
COINC
3020
3023
2042 47p
7214 SAA5231
VIP
27
16
7
15
22
25
14
3
4
5
6
8
9
11
12
13
26
36
39
37
38
2043 10n
2044 10n
PROC.
G
13.8MHz
÷2
+13
3019 18
2039 100u
2040 100n
4001 RES
3024 47k
3025 1k
7011 BC858B
7012 BC848B
2184 12p
2045 2u2
3028 220
3026 *
2046 10u
2051 15p
5016 27u
2052 270p
3030 680
3036 220
3029 68k
3035 2k2
3169 10k
7010 BC848C
3170 RES
2054 15p
2055 1n
2056 470p
2057 22n
2058 270p
2059 100p
2047 15p
5014 15u
2041 27p
2053 68n
1002 13.875MHz
+13TXT
3171 RES
6011 1N4148/RES
2080 22u
3049 22
2077 2u2
3048 5k6
3050 1k2
2081 4u7
2078 100n
3051 33k
3054 4k7
2079 2n7
+12B
2066 100n
+12B
3043 10k
3045 1k6
2073 82p
7216 TDA2579B
SYNC.50
10
G
15625Hz
TV IDENT.
G
50Hz
G
2072 1n
+12B
3040 100k
17
TP116
3227 150
+12B
7013 BC848B
6003 BAS85
+13
3117 1k
3053 820
3182 1k
3184 100
7014 BC858B
2
18
+13
3037 22
+12B
3041 560
3155 200
2064 100u
2068 100n
2065 100n
3180 100
3047 3k3
V50
3039 68k
+12B
3038 10k
3042 1k
6001 LLZ-5V1
2153 100p
3046 2k7
BK50
TP114
M59
M60
M61
1
2
3
4
5
6
7
8
9
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11
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B
C
D
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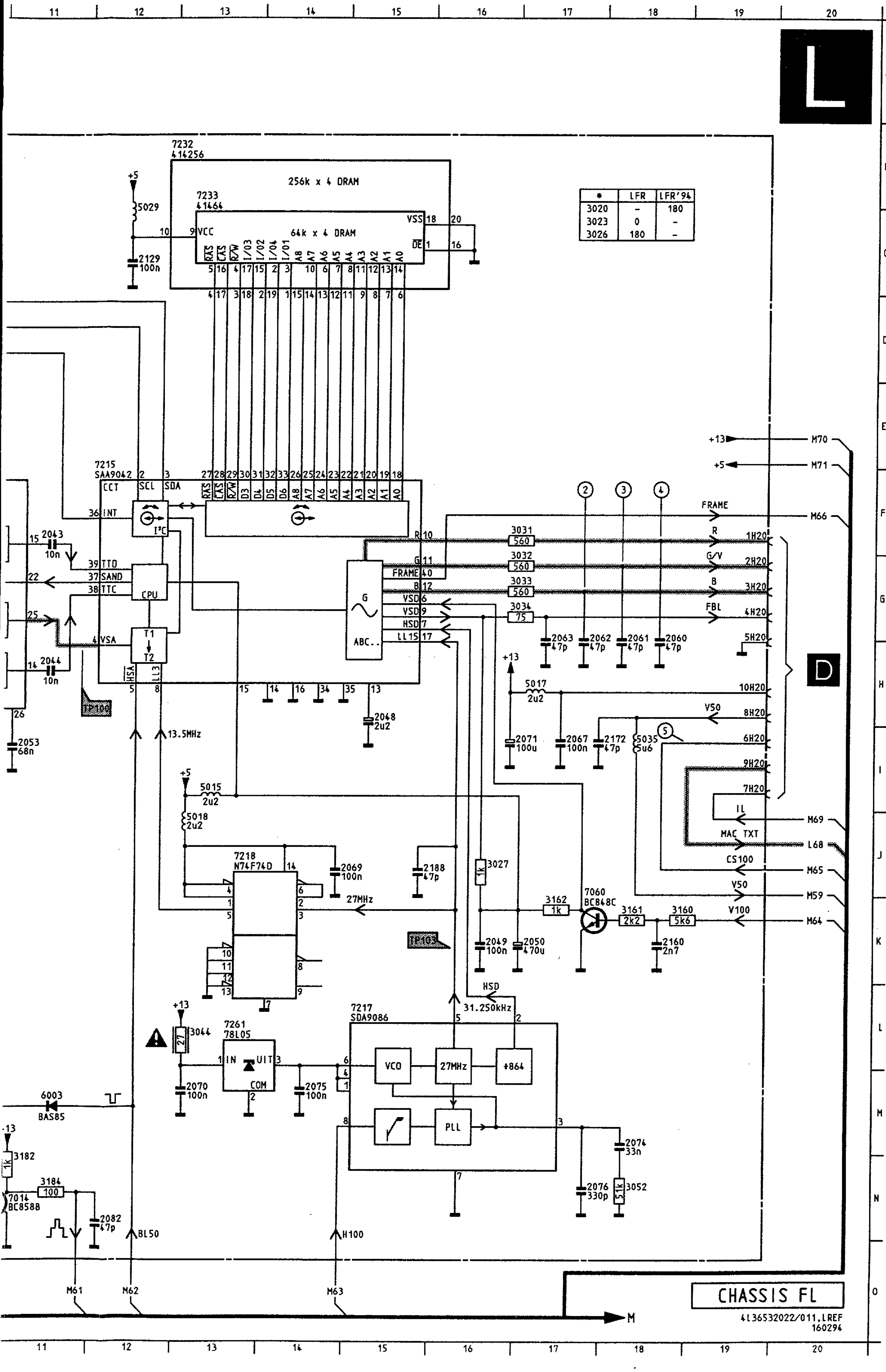
G
H
I
J
K
L
M
N
O

LFR box (Digital Scan)



L
D
7232
414256
256k x 4 DRAM
7233
41464
64k x 4 DRAM
VCC
VSS
OE
RAS
CAS
R/W
I/03
I/02
I/04
I/01
A8
A7
A6
A5
A4
A3
A2
A1
A0
+5
5029
2129
100n
7215
SAA9042
CCT
SCL
SDA
INT
I²C
TTD
SAND
TTC
CPU
VSA
T1
T2
HSA
LL3
D3
D4
D5
D6
G
ABC..
FRAME
VSD
HSD
LL15
R
G/V
B
FBL
2043
10n
2044
10n
2053
68n
TP100
13.5MHz
3031
560
3032
560
3033
560
3034
75
2063
47p
2062
47p
2061
47p
2060
47p
2048
2u2
+13
5017
2u2
2071
100u
2067
100n
2172
47p
5035
5u6
V50
1H20
2H20
3H20
4H20
5H20
10H20
8H20
6H20
9H20
7H20
+13
+5
M70
M71
M66
IL
MAC TXT
CS100
V50
V100
M69
L68
M65
M59
M64
5015
2u2
5018
2u2
7218
N74F74D
2069
100n
2188
47p
27MHz
3027
1k
7060
BC848C
3162
1k
3161
2k2
3160
5k6
2160
2n7
2049
100n
2050
470u
TP103
HSD
31.250kHz
7217
SDA9086
VCO
27MHz
÷864
PLL
2074
33n
2076
330p
3052
5.1k
7261
78L05
IN
UIT
COM
3044
27
2070
100n
2075
100n
6003
BAS85
-13
3182
1k
3184
100
7014
BC858B
2082
47p
BL50
H100
M61
M62
M63
M
11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

*	LFR	LFR'94
3020	-	180
3023	0	-
3026	180	-

CHASSIS FL

4L36532022/011.LREF
160294

1002	I 9	7217	L15
2039	G 5	7218	J13
2040	G 6	7232	B12
2041	I10	7233	B13
2042	E 9	7261	L13
2043	F11		
2044	H11		
2045	H 5		
2046	H 3		
2047	I 9		
2048	H15		
2049	K16		
2050	K17		
2051	I 3		
2052	H 5		
2053	I11		
2054	I 6		
2055	I 7		
2056	I 7		
2057	I 8		
2058	I 8		
2059	I 9		
2060	H18		
2061	H18		
2062	H17		
2063	H17		
2064	N 4		
2065	N 5		
2066	K 8		
2067	I17		
2068	N 4		
2069	J14		
2070	M13		
2071	I16		
2072	M 2		
2073	L 3		
2074	M18		
2075	M14		
2076	N17		
2077	K 4		
2078	K 6		
2079	J 7		
2080	J 4		
2081	K 5		
2082	N12		
2129	C12		
2153	N 8		
2160	K18		
2172	I18		
2184	H 4		
2188	J15		
3019	G 5		
3020	E 4		
3023	E 8		
3024	G 4		
3025	G 4		
3026	H 2		
3027	J16		
3028	H 4		
3029	I 4		
3030	H 5		
3031	F17		
3032	G17		
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3034	G17		
3035	I 4		
3036	I 6		
3037	N 4		
3038	N 8		
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3044	L13		
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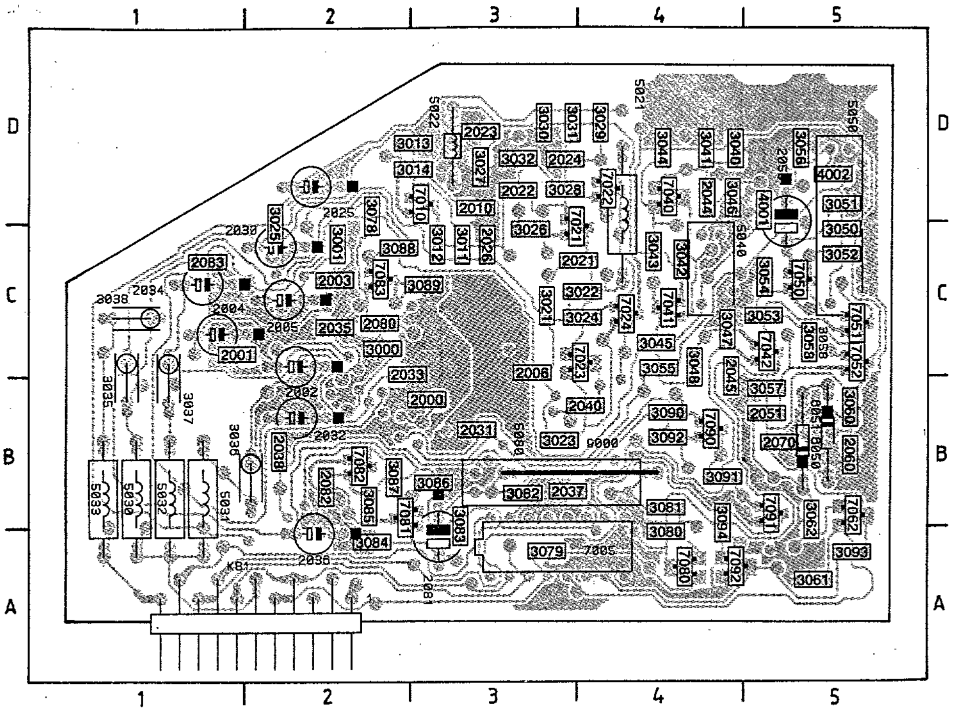
3048	K 5		
3049	J 5		
3050	K 5		
3051	J 7		
3052	N18		
3053	M10		
3054	K 7		
3117	M10		
3155	N 4		
3160	K18		
3161	K18		
3162	K17		
3169	I 5		
3170	I 6		
3171	J 4		
3180	N 6		
3182	M11		
3184	N11		
3227	M 9		
4001	G 3		
5014	I 9		
5015	I13		
5016	H 5		
5017	H17		
5018	J13		
5035	I18		
6001	N 9		
6003	M11		
6011	J 5		
7010	I 5		
7011	G 4		
7012	H 4		
7013	M10		
7014	N11		
7060	J17		
7214	F 6		
7215	F12		
7216	K 4		

PCS 73 746


1
2
3
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A
B
C
D
5022
5021
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2023
3013
3014
7010
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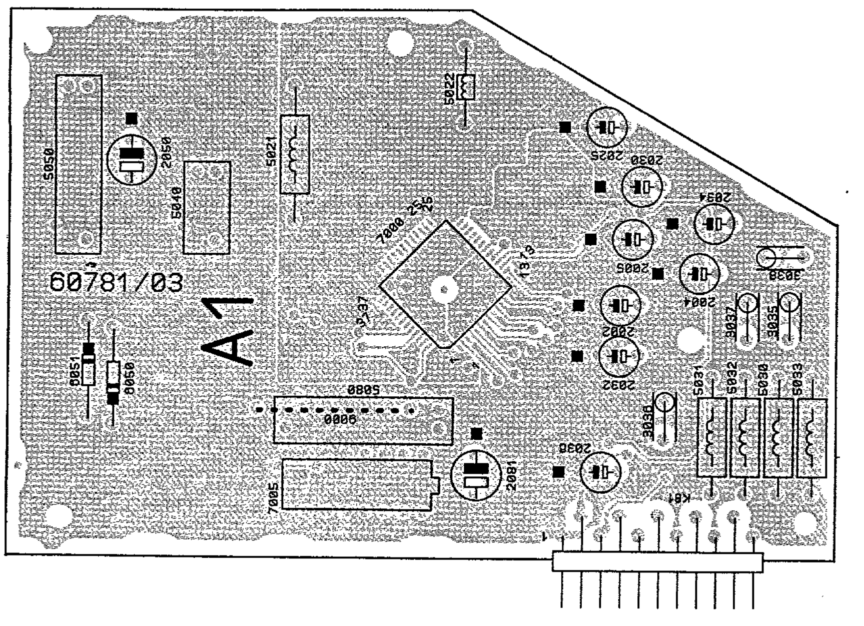
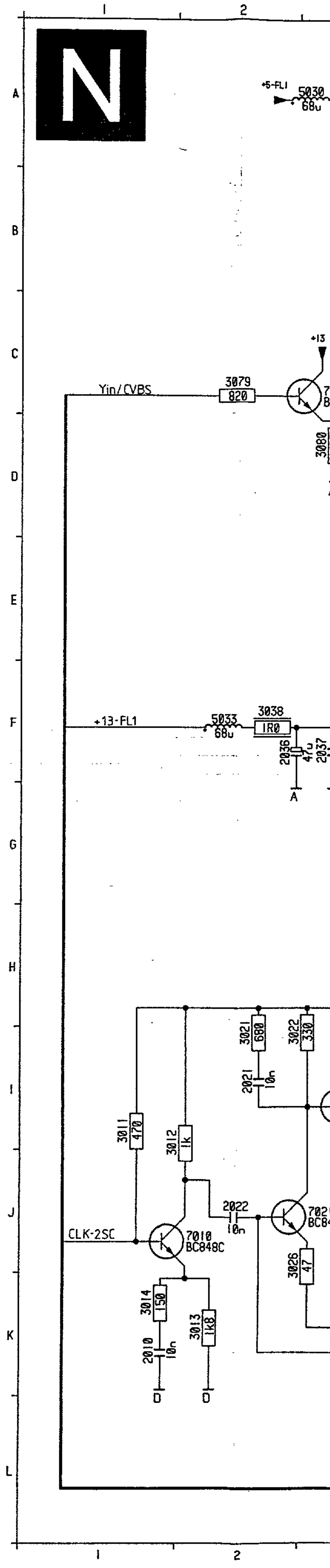
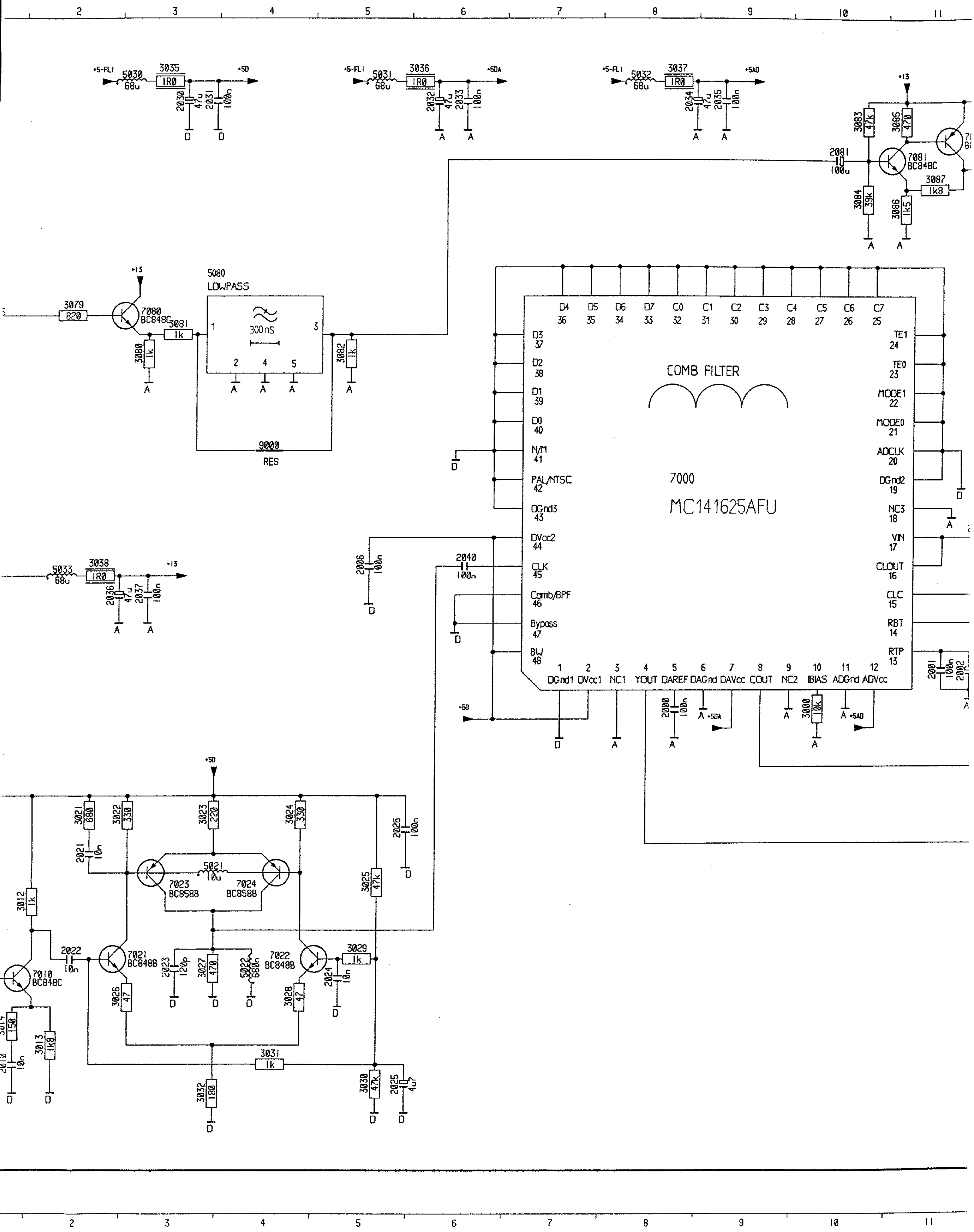
2024
3028
2022
7022
3030
3031
3029
3044
7040
3041
2044
3040
3046
2050
3056
4002
4001
3051
3050
3052
2030
2025
3025
3001
3078
3088
3012
3011
2026
3026
7021
2021
2010
3043
3042
5040
3054
7050
2083
2034
3038
2004
2005
2003
7083
3089
2035
2080
3000
2001
2002
2033
2000
3022
3021
3024
7024
7041
3047
3053
7051
7052
7042
3058
3045
3055
7023
3048
2045
3057
2006
2040
3090
7090
2051
6051
3060
3092
2070
6050
2060
2031
3023
9000
5080
3035
3037
3036
2032
2038
7082
2082
3087
3086
3085
7081
3083
3082
2037
3091
3081
3080
3094
7091
3062
7062
5033
5030
5032
5031
2036
3084
2081
3079
7005
7080
7092
3093
3061
K81

2000	B3	2032	B2	2082	B2	3029	D4	3048	C4	3081	B4	5021	D4	7023	C4	9000	B4
2001	C1	2033	C3	2083	C1	3030	D3	3050	C5	3082	B3	5022	D3	7024	C4		
2002	C2	2034	C1	3000	C2	3031	D4	3051	D5	3083	B3	5030	B1	7040	D4		
2003	C2	2035	C2	3001	C2	3032	D3	3052	C5	3084	A2	5031	B1	7041	C4		
2004	C1	2036	A2	3011	C3	3035	B1	3053	C5	3085	B2	5032	B1	7042	C5		
2005	C2	2037	B3	3012	C3	3036	B2	3054	C5	3086	B3	5033	B1	7050	C5		
2006	C3	2038	B2	3013	D3	3037	B1	3055	C4	3087	B2	5040	C4	7051	C5		
2010	D3	2040	B4	3014	D3	3038	C1	3056	D5	3088	C2	5050	C5	7052	C5		
2021	C4	2044	D4	3021	C3	3040	D4	3057	B5	3089	C3	5080	B3	7062	B5		
2022	D3	2045	C4	3022	C4	3041	D4	3058	C5	3090	B4	6050	B5	7080	A4		
2023	D3	2050	D5	3023	B3	3042	C4	3060	B5	3091	B4	6051	B5	7081	B2		
2024	D3	2051	B5	3024	C4	3043	C4	3061	A5	3092	B4	7000	C3	7082	B2		
2025	D2	2060	B5	3025	D2	3044	D4	3062	B5	3093	A5	7005	A3	7083	C2		
2026	C3	2070	B5	3026	C3	3045	C4	3078	D2	3094	B4	7010	D3	7090	B4		
2030	C2	2080	C2	3027	D3	3046	D4	3079	A3	4001	D5	7021	C4	7091	B5		
2031	B3	2081	A3	3028	D3	3047	C4	3080	A4	4002	D5	7022	D4	7092	A4		

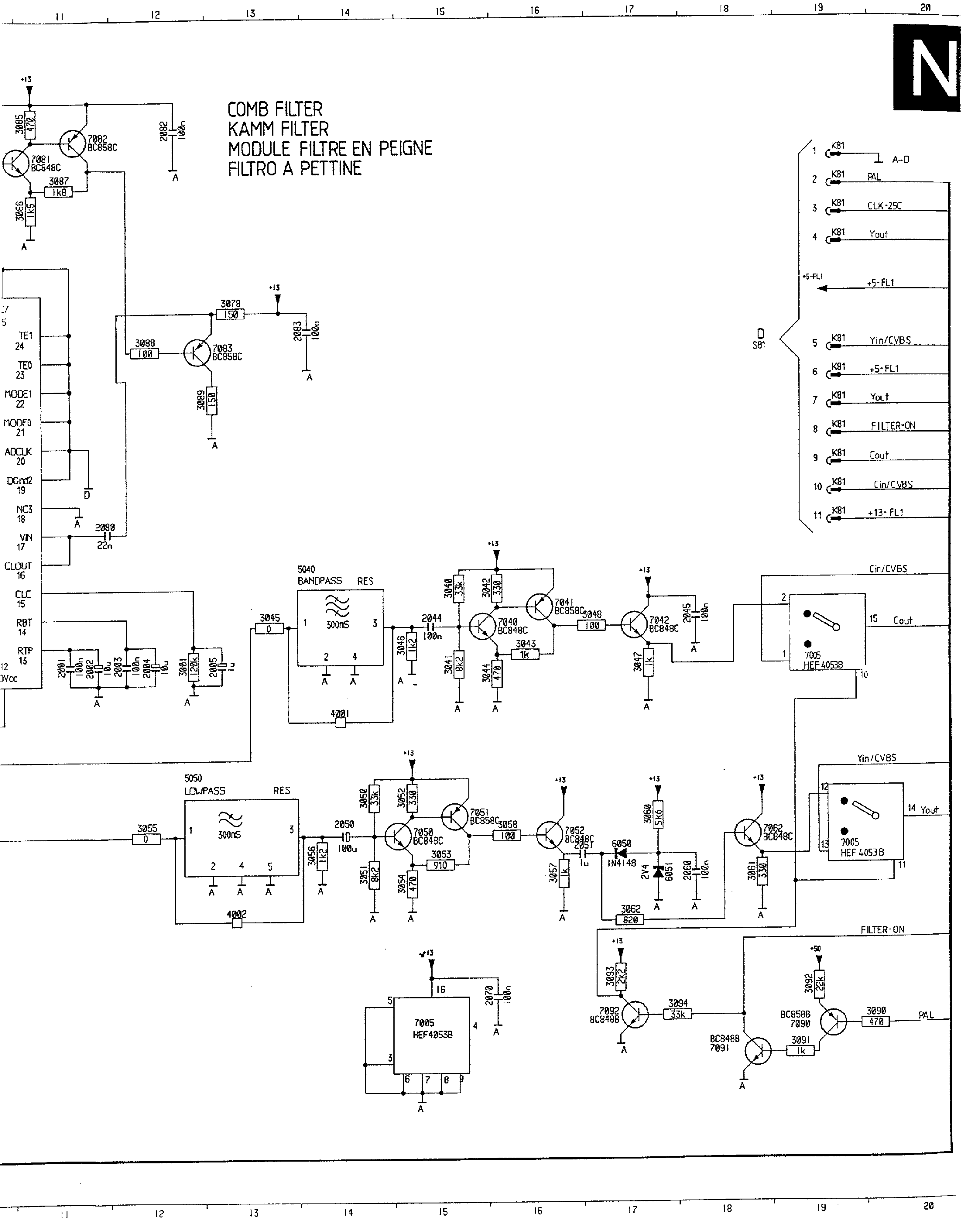

60781/03
A1
5050
2050
5040
5021
5022
2025
2030
2034
7000
2005
2004
3038
2002
3037
3035
2032
5080
9000
3036
5031
5032
5030
5033
6051
6050
7005
2081
2036
K81

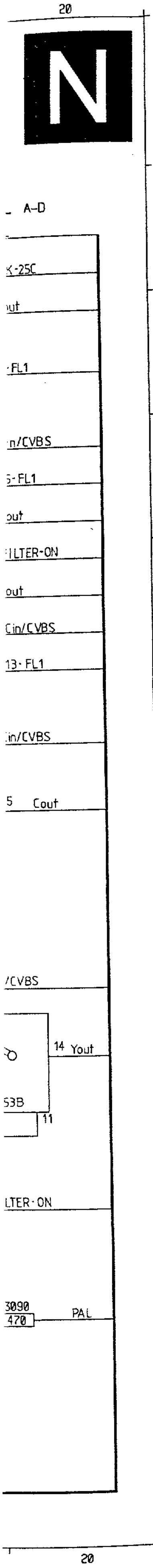

N
1
2
A
B
C
D
E
F
G
H
I
J
K
L
+5-FL1
5030
68u
+13
Yin/CVBS
3079
820
3080
+13-FL1
5033
68u
3038
1R0
2036
47u
2037
3021
680
3022
330
2021
10n
3011
470
3012
1k
2022
10n
CLK-2SC
7010
BC848C
3026
47
3014
150
3013
1k8
2010
10n

Comb filter / Kamm-Filter / Filtre en peigne


2
3
4
5
6
7
8
9
10
11
+5-FLI
5030
68u
3035
1R0
+5D
2030
47u
2031
100n
D
5031
3036
+5DA
2032
2033
A
5032
3037
+5AD
2034
2035
+13
3083
47k
3085
470
2081
100u
7081
BC848C
3087
1k8
3084
39k
3086
1k5
5080
LOWPASS
300nS
RES
9000
3079
820
7080
BC848C
3081
1k
3080
3082
D4 36
D5 35
D6 34
D7 33
C0 32
C1 31
C2 30
C3 29
C4 28
C5 27
C6 26
C7 25
D3 37
D2 38
D1 39
D0 40
N/M 41
PAL/NTSC 42
DGnd3 43
DVcc2 44
CLK 45
Comb/BPF 46
Bypass 47
BW 48
TE1 24
TE0 23
MODE1 22
MODE0 21
ADCLK 20
DGnd2 19
NC3 18
VIN 17
CLOUT 16
CLC 15
RBT 14
RTP 13
1 DGnd1
2 DVcc1
3 NC1
4 YOUT
5 DAREF
6 DAGnd
7 DAVcc
8 COUT
9 NC2
10 IBIAS
11 ADGnd
12 ADVcc
COMB FILTER
7000
MC141625AFU
2006
100n
2040
100n
2000
100n
3000
10k
2001
100n
2002
5033
68u
3038
1R0
2036
47u
2037
100n
3021
680
3022
330
3023
220
3024
330
2026
100n
2021
10n
5021
10u
7023
BC858B
7024
BC858B
3025
47k
3012
1k
2022
10n
7021
BC848B
2023
120p
3027
470
5022
680n
7022
BC848B
3029
1k
2024
10n
7010
BC848C
3026
47
3028
47
3014
150
2010
10n
3013
1k8
3031
1k
3032
180
3030
47k
2025
4u7

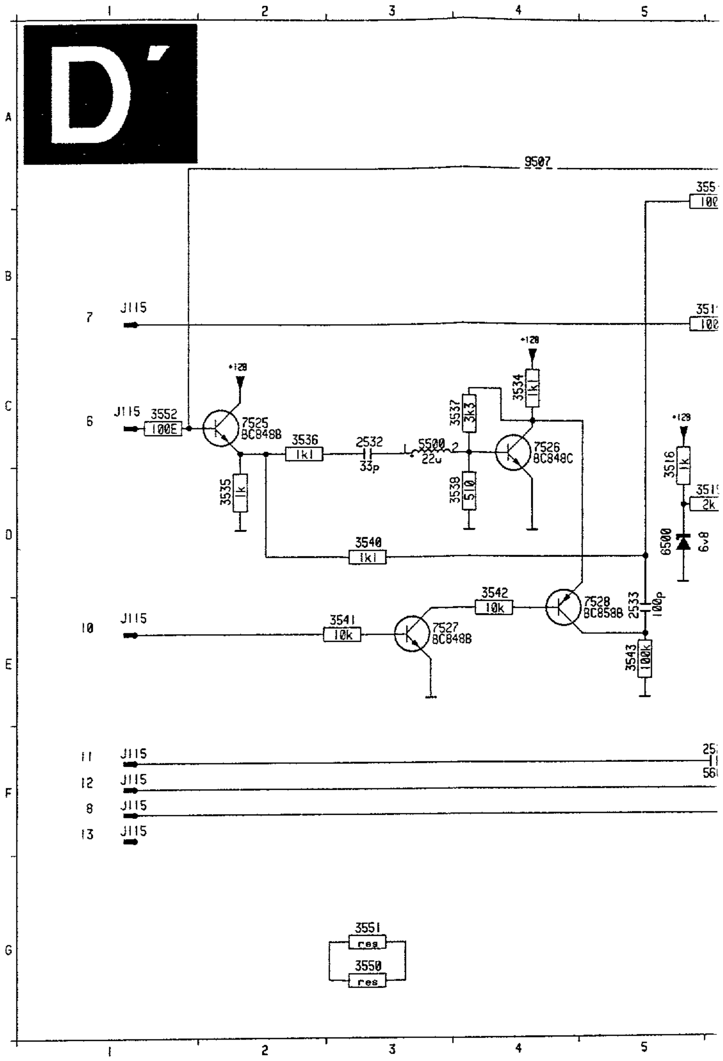
COMB FILTER
KAMM FILTER
MODULE FILTRE EN PEIGNE
FILTRO A PETTINE


11
12
13
14
15
16
17
18
19
20
+13
3085 470
7082 BC858C
7081 BC848C
3087 1k8
3086 1k5
A
2082 100n
3079 150
2083 100n
3088 100
7083 BC858C
3089 150
TE1 24
TE0 23
MODE1 22
MODE0 21
ADCLK 20
DGnd2 19
NC3 18
VIN 17
CLOUT 16
CLC 15
RBT 14
RTP 13
12
DVcc
D
2080 22n
2001 100n
2002 10u
2003 100n
2004 10u
3001 120k
2005 1u
3045 0
5040 BANDPASS RES
300nS
1
2
3
4
4001
2044 100n
3046 1k2
3040 33k
3042 330
3041 8k2
3044 470
7040 BC848C
7041 BC858C
3043 1k
3048 100
7042 BC848C
2045 100n
3047 1k
7005 HEF4053B
Cin/CVBS
Cout
15
10
D S81
K81
1
A-D
2 PAL
3 CLK-25C
4 Yout
+5-FL1
5 Yin/CVBS
6 +5-FL1
7 Yout
8 FILTER-ON
9 Cout
10 Cin/CVBS
11 +13-FL1
3055 0
5050 LOWPASS RES
300nS
5
4002
3056 1k2
2050 100u
3050 33k
3052 330
3051 8k2
3054 470
7050 BC848C
7051 BC858C
3053 910
3058 100
7052 BC848C
2051 1u
3057 1k
6050 1N4148
3060 5k6
2V4 6051
2060 100n
3062 820
7062 BC848C
3061 330
Yin/CVBS
12
13
14 Yout
11
FILTER-ON
+50
3093 2k2
7092 BC848B
3094 33k
3092 22k
BC858B 7090
3090 470
PAL
BC848B 7091
3091 1k
16
2070 100n
7005 HEF4053B
6
7
8
9
]

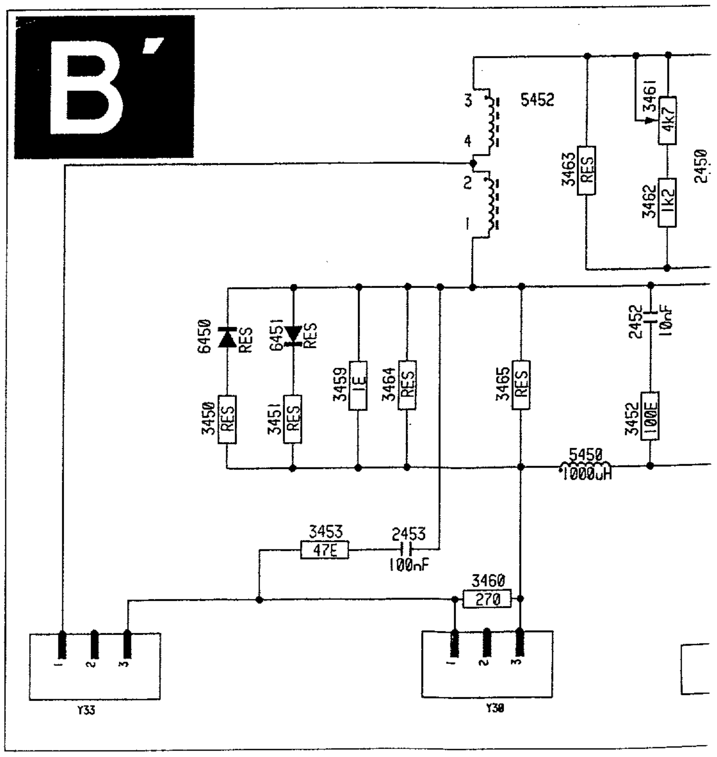

20
N
A–D
K-25C
out
-FL1
in/CVBS
5-FL1
out
FILTER-ON
out
Cin/CVBS
13-FL1
in/CVBS
5 Cout
/CVBS
14 Yout
53B
11
LTER-ON
3090
470
PAL
20
A
B
C
D
E
F
G
H
I
J
K
L

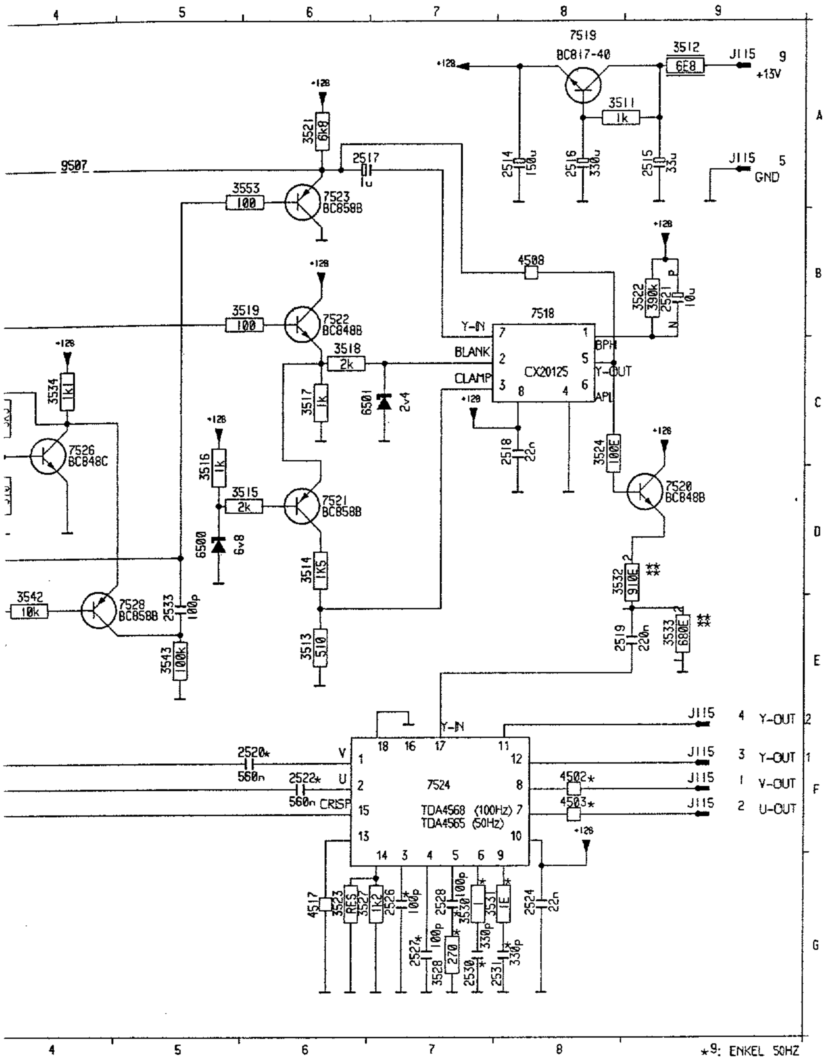
2000	G 8
2001	G11
2002	G11
2003	G12
2004	G12
2005	G13
2006	F 5
2010	K 1
2021	I 2
2022	J 2
2023	J 3
2024	J 5
2025	K 5
2026	I 5
2030	A 3
2031	A 3
2032	A 6
2033	A 6
2034	A 8
2035	A 9
2036	F 2
2037	F 3
2038	B18
2040	F 6
2044	G15
2045	G18
2050	I14
2051	I16
2060	I18
2070	K16
2080	F11
2081	B10
2082	A12
2083	D14
3000	G10
3001	G12
3011	I 1
3012	I 1
3013	K 2
3014	K 1
3021	I 2
3022	I 2
3023	I 3
3024	I 4
3025	I 5
3026	J 2
3027	J 3
3028	J 4
3029	J 5
3030	K 5
3031	K 4
3032	K 3
3035	A 3
3036	A 6
3037	A 8
3038	F 2
3040	F15
3041	G15
3042	F15
3043	G16
3044	G15
3045	G13
3046	G15
3047	G17
3048	G17
3050	H14
3051	I14
3052	H15
3053	I15
3054	I15
3055	I12
3056	I14
3057	I16
3058	I16
3060	I17
3061	I18
3062	J17
3078	C13
3079	C 2
3080	D 3
3081	C 3
3082	D 5
3083	A10
3084	B10
3085	A11
3086	B11
3087	B11
3088	D12
3089	D12
3090	K20
3091	K19
3092	J19
3093	J17
3094	K17
4001	H14
4002	J13
5021	I 3
5022	J 4
5030	A 3
5031	A 5
5032	A 8
5033	F 2
5040	F13
5050	H12
5080	C 3
6050	I17
6051	I17
7000	E 8
7005	K15
7005	G19
7005	I19
7010	J 2
7021	J 3
7022	J 4
7023	I 3
7024	I 4
7040	G16
7041	F16
7042	G17
7050	I15
7051	I15
7052	I16
7062	I18
7080	C 3
7081	B11
7082	B11
7083	D13
7090	K19
7091	K18
7092	K17
9000	E 4
K81	B19
K81	B19
K81	B19
K81	C19
K81	D19
K81	D19
K81	D19
K81	E19
K81	E19
K81	E19
K81	E19

Black stretch


D′
1
2
3
4
5
A
B
C
D
E
F
G
9507
J115
7
6
10
11
12
8
13
3552
100E
7525
BC848B
+12V
3535
1k
3536
1k1
2532
33p
5500
22u
3537
3k3
3534
1k1
3539
510
7526
BC848C
3540
1k1
3541
10k
7527
BC848B
3542
10k
7528
BC858B
2533
100p
3543
100k
3516
1k
6500
6v8
3551
res
3550
res

North-South (only 29")


B′
5452
3
4
2
1
3461
4k7
3462
1k2
3463
RES
2450
2452
10nF
3452
100E
6450
RES
6451
RES
3450
RES
3451
RES
3459
1E
3464
RES
3465
RES
5450
1000uH
3453
47E
2453
100nF
3460
270
Y33
Y30
1
2
3


7519
BC817-40
3512
6E8
J115
+13V
+12B
3511
1k
2514
150u
2516
330u
2515
33u
GND
3521
6k8
9507
2517
1u
3553
100
7523
BC858B
4508
3522
390k
2521
10u
7518
CX20125
Y-IN
BLANK
CLAMP
BPH
Y-OUT
APL
3519
100
7522
BC848B
3518
2k
6501
2v4
3534
1k
7526
BC848C
3517
1k
2518
22n
3524
100E
7520
BC848B
3516
1k
3515
2k
7521
BC858B
6500
6v8
3514
1K5
3532
910E
3542
10k
7528
BC858B
2533
100p
3543
100k
3513
510
2519
220n
3533
680E
7524
TDA4568 (100Hz)
TDA4565 (50Hz)
2520*
560n
2522*
560n
CRISP
Y-OUT
V-OUT
U-OUT
4502*
4503*
4517
3523
RES
3527
1k2
2526
100p
2528
100p
3530
3531
1E
2524
22n
2527*
100p
3528
270
2530*
330p
2531*
330p

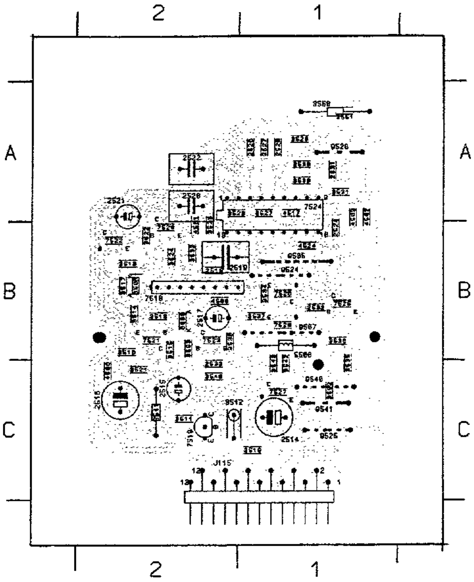
*9: ENKEL 50HZ

2514	A	8
2515	A	9
2516	A	8
2517	A	6
2518	C	8
2519	E	9
2520	F	6
2521	B	9
2522	F	6
2524	G	8
2526	G	7
2527	G	7
2528	G	7
2530	G	7
2531	G	8
2532	C	3
2533	E	5
3511	A	8
3512	A	9
3513	E	6
3514	D	6
3515	D	6
3516	C	5
3517	C	6
3518	C	6
3519	B	6
3521	A	6
3522	B	9
3523	G	6
3524	C	8
3527	G	7
3528	G	7
3530	G	7
3531	G	8
3532	D	8
3533	E	9
3534	C	4
3535	D	2
3536	C	2
3537	C	4
3538	D	4
3540	D	3
3541	E	3
3542	E	4
3543	E	5
3550	G	3
3551	G	3
3552	C	1
3553	A	6
4502	F	8
4503	F	8
4508	B	8
4517	G	6
5500	C	3
6500	D	5
6501	C	6
7518	B	8
7519	A	8
7520	D	9
7521	D	6
7522	B	6
7523	A	6
7524	F	7
7525	C	2
7526	C	4
7527	E	3
7528	E	5
9507	A	4
J115	F	9
J115	F	9
J115	F	9
J115	E	9
J115	A	9
J115	C	1
J115	B	1
J115	F	1
J115	A	9
J115	E	1
J115	F	1
J115	F	1
J115	F	1

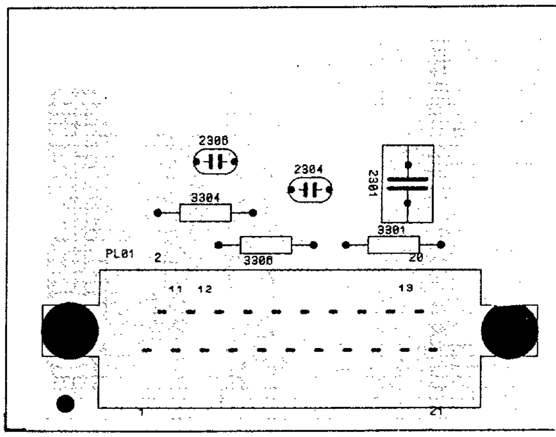
Euro

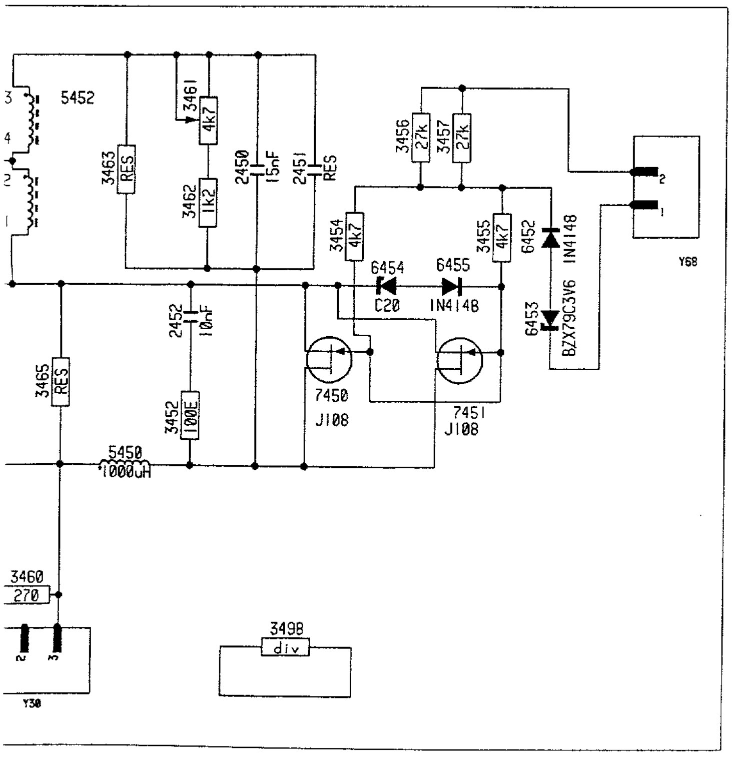
Black stretch

[illegible]	2524 [illegible]	3512 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2515 C 2	2526 A 1	3513 B 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2516 C 2	2527 A 1	3514 B 2	3524 B 2	3536 B 1	[illegible]	5500 B 1	[illegible]	[illegible]
2517 B 2	2528 A 1	3515 B 2	3527 A 1	3537 B 1	3553 B 2	5500 B 2	[illegible]	9540 [illegible]
2518 B 2	2530 A 1	3516 B 2	3528 A 1	3538 B 2	4501 B 2	6501 B 2	[illegible]	9541 [illegible]
2519 B 2	2531 A 1	3517 B 2	3530 A 1	3540 C 2	4502 A 1	7518 B 2	[illegible]	[illegible]
2520 A 2	2532 B 1	3518 B 2	3531 A 1	3541 C 2	4503 A 1	7519 C 2	7528 B 1	
2521 A 2	2533 C 2	3519 C 1	3532 B 2	3542 C 1	4505 C 2	7520 B 2	9507 B 1	
2522 A 2	3511 C 2	3521 C 2	3533 B 2	3543 C 1	4508 B 2	7521 B 2	9524 B 1	



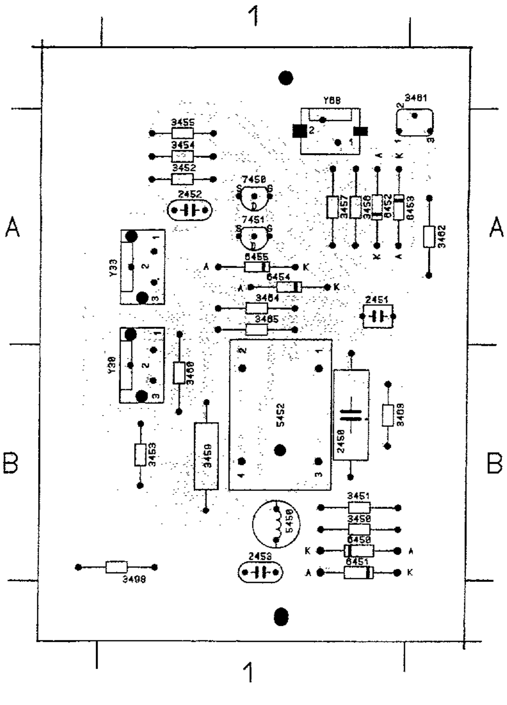
Euro AV3 Connector


2306
2304
2301
3304
3301
3306
PL01
2
20
11
12
13
1
21


5452
3461
4k7
3463
RES
3462
1k2
2450
15nF
2451
RES
3456
27k
3457
27k
3454
4k7
3455
4k7
6452
1N4148
6454
C20
6455
1N4148
6453
BZX79C3V6
Y68
2452
10nF
3465
RES
3452
100E
7450
J108
7451
J108
5450
1000uH
3460
270
3498
div
Y30

North-South (29")

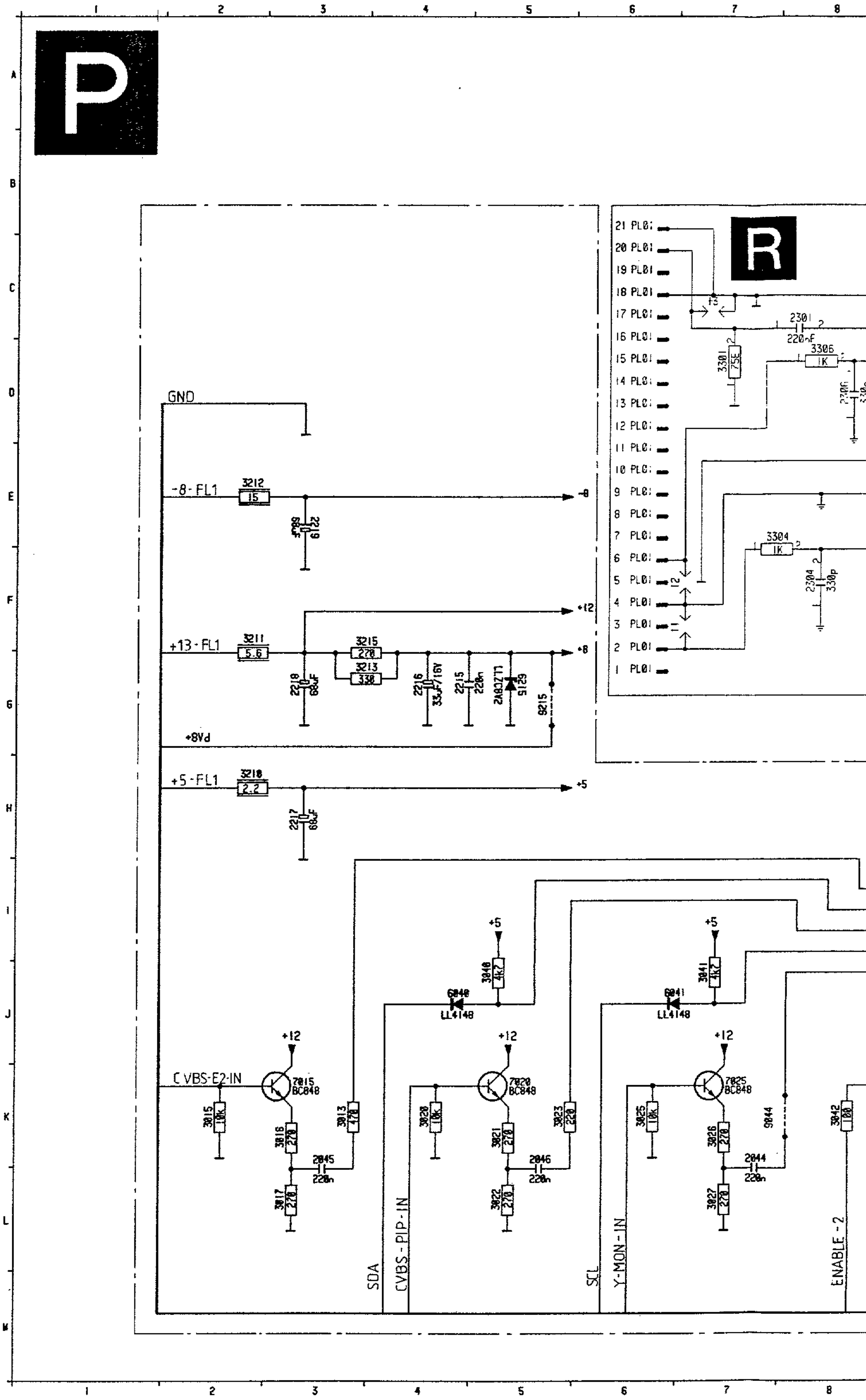
2450 B 1	3451 B 1	3455 A 1	3463 B 1	5452 B 1	6454 A 1	Y33 A 1
2451 A 1	3452 A 1	3457 A 1	3464 A 1	6450 B 1	6455 A 1	Y68 A 1
2452 A 1	3453 B 1	3459 B 1	3465 A 1	6451 B 1	7450 A 1	
2453 B 1	3454 A 1	3460 A 1	3498 B 1	6452 A 1	7451 A 1	
3452 B 1	3455 A 1	3461 A 1	5452 B 1	6453 A 1	Y30 B 1	

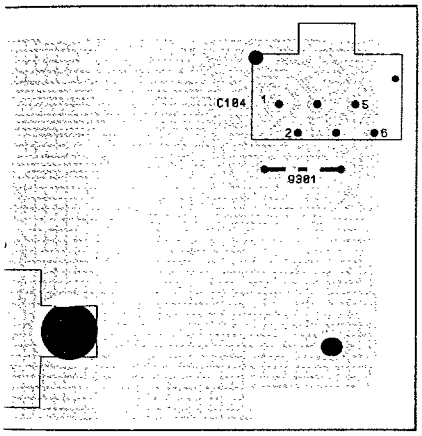

1
A
B
Y68
3481
3455
3454
3452
7450
2452
7451
Y33
6455
6454
3464
3465
2451
Y30
3460
5452
2450
3459
3453
3498
5450
2453
3451
3450
6450
6451

Euro

[illegible]

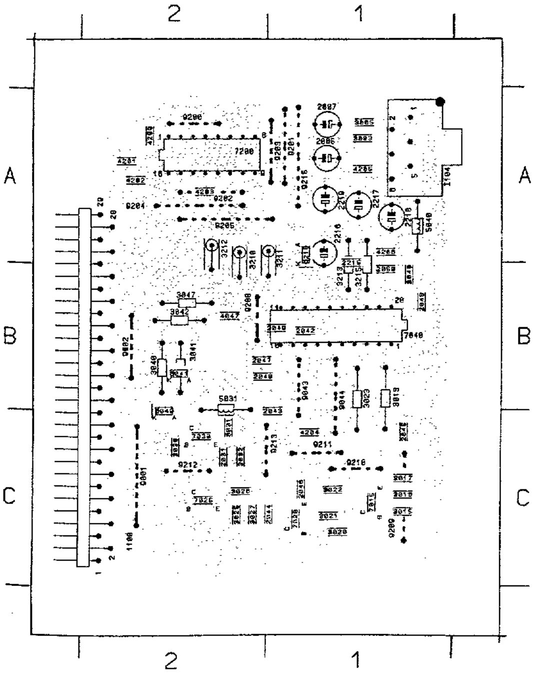
Euro AV3 Interface / Connector


P
R
GND
-8-FL1
3212
15
2212
68µF
-8
+13-FL1
3211
5.6
2218
68µF
3215
270
3213
330
2216
33µF/16V
2215
220n
2A8
ZTT
6219
9215
+12
+8
+8Vd
+5-FL1
3218
2.2
2217
68µF
+5
21 PL01
20 PL01
19 PL01
18 PL01
17 PL01
16 PL01
15 PL01
14 PL01
13 PL01
12 PL01
11 PL01
10 PL01
9 PL01
8 PL01
7 PL01
6 PL01
5 PL01
4 PL01
3 PL01
2 PL01
1 PL01
2301
220nF
3301
75E
3306
1K
3304
1K
2304
330p
+5
3040
4K7
6040
LL4148
3041
4K7
6041
LL4148
+12
CVBS-E2-IN
7015
BC848
3015
10k
3016
270
3017
270
2045
220n
3013
470
3020
10k
7020
BC848
3021
270
3022
270
2046
220n
3023
220
3025
10k
7025
BC848
3026
270
3027
270
2044
220n
9044
3042
100
SDA
CVBS-PIP-IN
SCL
Y-MON-IN
ENABLE-2
A
B
C
D
E
F
G
H
I
J
K
L
M
1
2
3
4
5
6
7
8

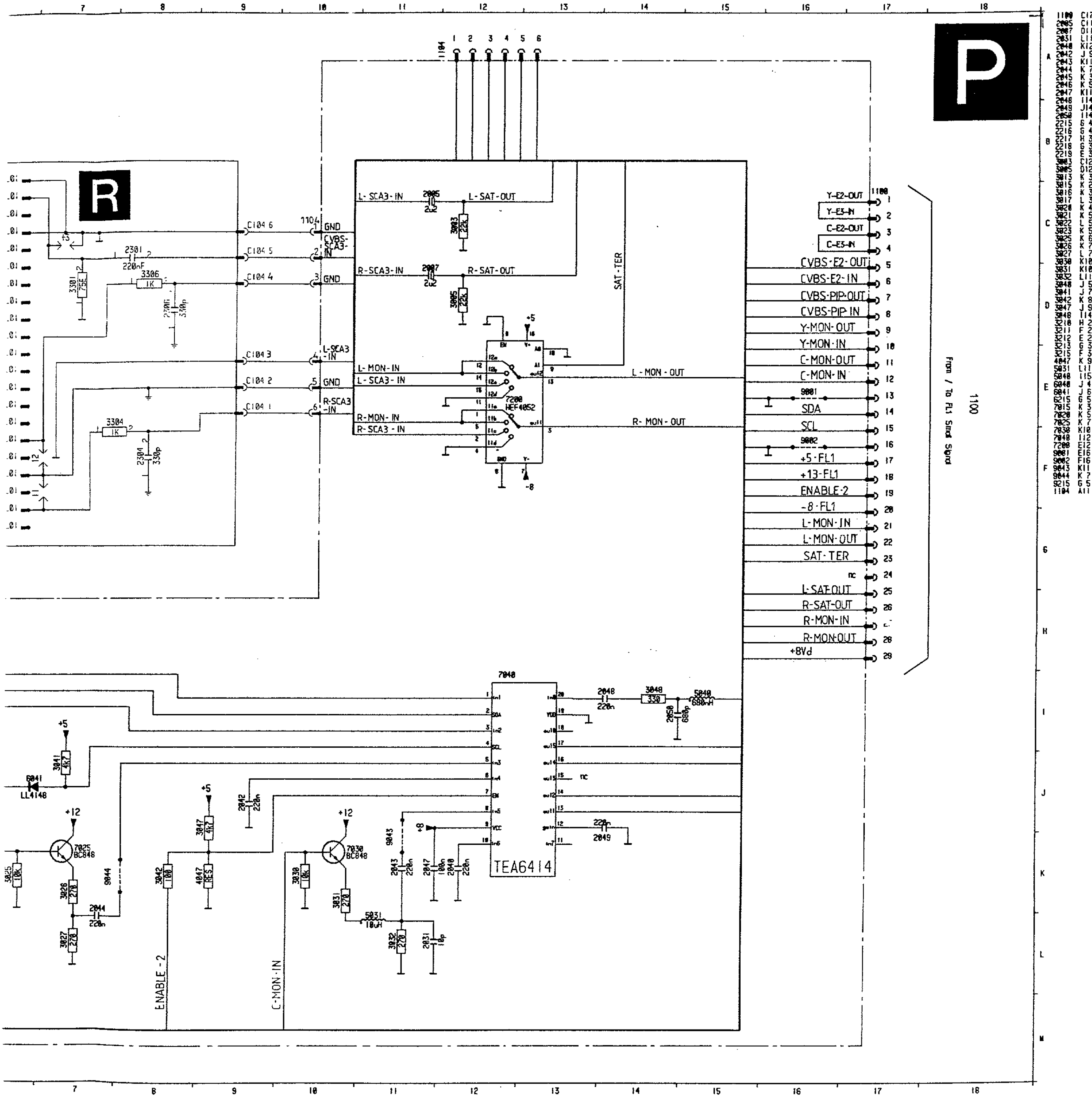

C104
1
2
5
6
9301

Euro AV3 Interface

1100 C 2	2046 C 1	2219 A 1	3022 C 1	3041 B 2	4047 B 2	5040 A 1	7200 A 2	9204 A 2	1104 A 1
2005 A 1	2047 B 2	3003 A 1	3023 C 1	3042 B 2	4200 A 2	6040 B 2	9001 C 2	9205 A 1	
2007 A 1	2048 B 1	3005 A 1	3025 C 2	3047 B 2	4201 A 2	6041 B 2	9002 B 2	9206 B 2	
2031 C 2	2049 B 1	3013 C 1	3026 C 2	3048 B 1	4202 A 2	6215 A 1	9043 C 1	9209 C 1	
2040 B 2	2050 B 1	3015 C 1	3027 C 2	3210 A 2	4203 A 2	7015 C 1	9044 C 1	9210 C 1	
2042 B 1	2215 A 1	3016 C 1	3030 C 2	3211 A 1	4204 C 1	7020 C 1	9200 A 2	9211 C 1	
2043 B 1	2216 B 1	3017 C 1	3031 C 2	3212 A 2	4205 A 1	7025 C 2	9201 A 1	9212 C 2	
2044 C 1	2217 A 1	3020 C 1	3032 C 2	3213 A 1	4206 A 1	7030 C 2	9202 A 2	9213 C 1	
2045 C 1	2218 A 1	3021 C 1	3040 B 2	3215 A 1	5031 B 2	7040 B 1	9203 A 1	9215 A 1	


2
1
A
B
C
9200
7200
2007
2005
4201
4202
9204
9203
9202
9205
2219
2216
2217
3212
3210
3211
6215
3213
3215
4206
3058
3047
3042
3048
3041
9201
2042
7040
2047
2040
2049
9043
9041
3023
3019
5031
7030
2031
9212
9216
2017
7026
7020
2021
2022
2027
2028
3030
1104
1100
2
20

Interface / Branchement Euro AV3


P
R
1104
1100
GND
CVBS-SCA3-IN
L-SCA3-IN
R-SCA3-IN
L-SAT-OUT
R-SAT-OUT
SAT-TER
L-MON-IN
R-MON-IN
L-MON-OUT
R-MON-OUT
7200
HEF4052
7040
TEA6414
Y-E2-OUT
Y-E3-IN
C-E2-OUT
C-E3-IN
CVBS-E2-OUT
CVBS-E2-IN
CVBS-PIP-OUT
CVBS-PIP-IN
Y-MON-OUT
Y-MON-IN
C-MON-OUT
C-MON-IN
SDA
SCL
+5-FL1
+13-FL1
ENABLE-2
-8-FL1
L-MON-IN
L-MON-OUT
SAT-TER
nc
L-SAT-OUT
R-SAT-OUT
R-MON-IN
R-MON-OUT
+8Vd
From / To FL1 Smd Signal
7025 BC848
7030 BC848
6041 LL4148
ENABLE-2
C-MON-IN
+5
+12
+8
-8

7. Electrical adjustments

Setting conditions

- Unless stated otherwise, the supply voltage used is: 220 - 240V ± 10%; 50 - 60Hz ± 5%
- Voltages and oscillograms are measured in elation to tuner earth. **Never** use the cooling plates as earth.
- Warming-up time ≈ 10 minutes
- For all measurements it is true that:
- probe Ri > 1MΩ; Ci < 10pF

1. Electrical settings on the large signal panel

1.1 +141V supply voltage

Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ±0.5V.

1.2 +5V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 8 of L02
Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage (FLx.x6/FLx.x7)

Connect a voltmeter to pin 6 of connector L02
Adjust the voltage to 14.2V using R3234.

1.4 Focusing

This is set with the focus potentiometer (top one on the Line output transformer/DAF Unit).

1.5 Dynamic 1) Astigmatic focus

This is set with the aid of the potentiometer on the bottom right of the DAF transformer. Repeat the adjustment of the Vg2 and focus.

1.6 Vg2 setting

Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer/DAF unit) to 150V ±2V.

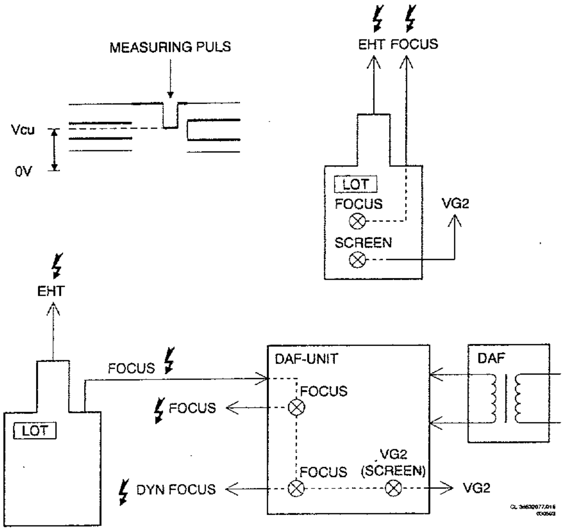


Fig. 7.1

1.7 Horizontal synchronisation

Connect point 5-IC7400 to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

1.8 Horizontal centring

Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle). Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.

1.9 Picture width

Set using potentiometer R3607.

1.10 Vertical centring

Set using potentiometer R3467.

1.11 Picture height

Set using potentiometer R3410.

1.12 Picture height

Movie expand on: set using potentiometer R3422.
Movie expand off: set using potentiometer R3410.

1.13 East/West correction

Set using potentiometer R3602.

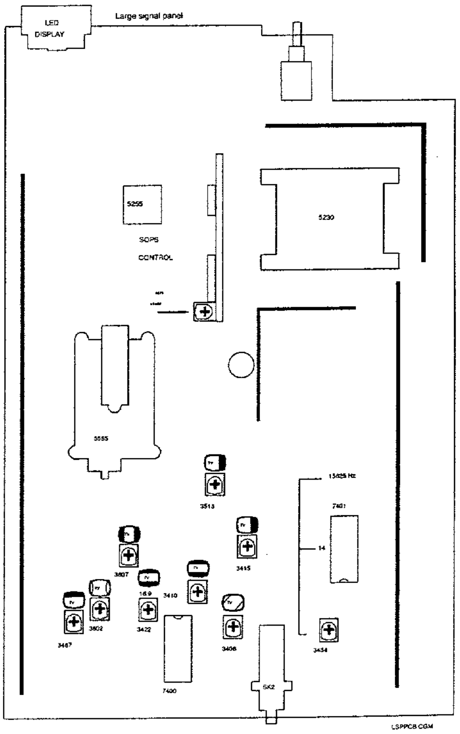


Fig. 7.2

2. E

2.1 S
C
si
S
S
th
C
U
ar

2.2 4
S
pc
ar

2.3 E
2.3.1 C
C
th
4.
pi
os
S
R

2.3.2 4.
C
w
C
C
S
R

2.3.3 6.
C
E
2(
C
C
S
R

2.3.4 C
C
b
e
p

2.3.5 C
C
b
e
p

2.3.6 S
C
bl
3-
C
m

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit

Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

2.3 Electrical settings IC7365 (TDA4650)

2.3.1 Chroma bandpassfilter

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365.
Set L5345 to maximum amplitude.
Remove the interconnection.

2.3.2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.4 Chroma 8,87 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.5 Chroma 7,16 MHz auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set R2379 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 3-IC7365. Set L5370 to minimum amplitude.
Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

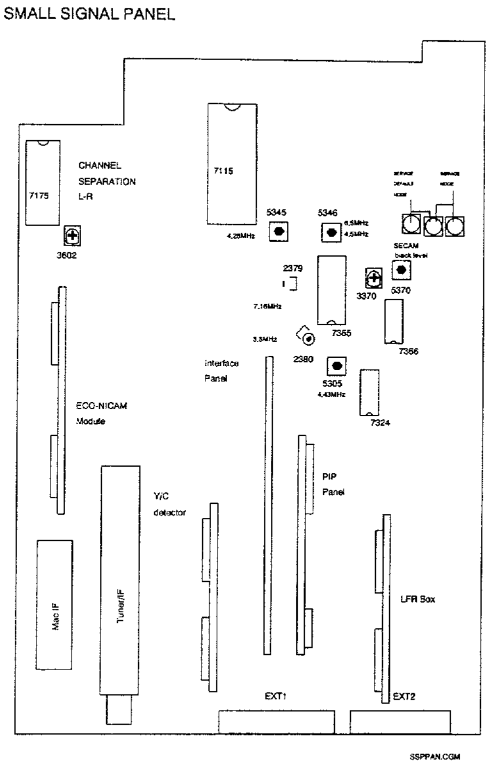

SMALL SIGNAL PANEL
7175
CHANNEL
SEPARATION
L-R
3602
7115
5345
5346
4,28MHz
6,5MHz
4,5MHz
SECAM
back level
2379
7,16MHz
3370
5370
7365
5,5MHz
7366
2380
5305
4,43MHz
Interface
Panel
7324
ECO-NICAM
Module
Y/C
detector
PIP
Panel
Mac IF
Tuner/IF
LFR Box
EXT1
EXT2
SSPPAN.CGM

Fig. 7.3

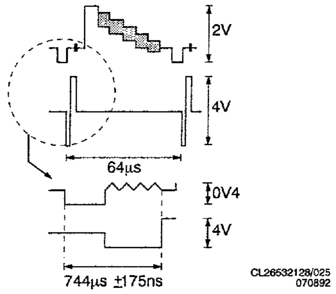

2V
4V
64μs
0V4
4V
744μs ±175ns
CL26532128/025
070892

Fig. 7.4

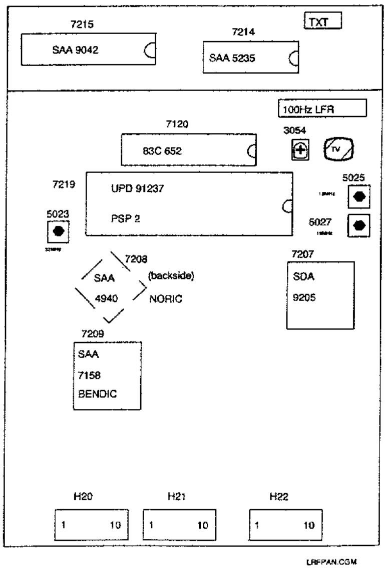

7215
SAA 9042
7214
SAA 5235
TXT
100Hz LFR
7120
83C 652
3054
TV
5025
7219
UPD 91237
PSP 2
5023
5027
7208
SAA
4940
(backside)
NORIC
7207
SDA
9205
7209
SAA
7158
BENDIC
H20
H21
H22
1
10
LRFPAN.CGM

Fig. 7.5

Electrical adjustments

3. Electrical adjustments on the LFR box

3.1 Synchronisation

Connect point 5 of IC7216 to earth. Adjust R3054 until the picture is straight.
Remove the short circuit.

3.2 16MHz oscillator

Apply a PAL/SECAM signal. Measure the signals at point 1 of IC7219 and at point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 µsec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32MHz oscillator

Force the STABLE OSD command to the microprocessor, by disconnecting the set from a possible antenna inputsignal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz ±50 KHz.

3.4 12MHz oscillator

Switch on compress.
Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 µsec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).
Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (±5Hz)

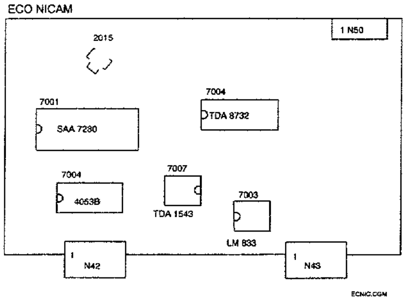


Fig. 7.6

5. Y/C detector adjustment

5.1 PAL/SECAM

Inject a chroma signal of 4.418 MHz/200mV on pin 15 of EXT2 SCART (PL05).
Connect an oscilloscope to the collector of T7266 (T7).
Using L5201 adjust the 4.418 MHz signal to maximum amplitude.

5.2 NTSC

As PAL/SECAM but with a signal of 3.582 MHz/200mV. Adjust with L5200.

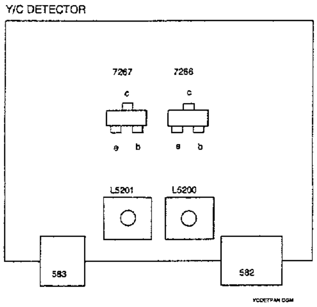


Fig. 7.7

6. Electrical settings on the PIP panel

Setting conditions

Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature
(after ≈20 min.).

6.1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ±25 Hz with R3239.
Remove the short circuits.

6.2 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

6.3 Setting for PIP modules with TDA4554

6.3.1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125.
Connect an oscilloscope to pin 15-IC7125.
Set L5118 to maximum amplitude.
Remove the interconnection.

6.3.2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth. Set C2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.3 NTSC chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set C2212 so that the colour of the PIP picture is practically still. Remove the interconnection.

6.3.4 The delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

Electrical adjustments

6.3.5 *SECAM identification*

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Adjust L5190 to maximum DC level.
Remove the interconnection.

6.3.6 *SECAM demodulators*

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

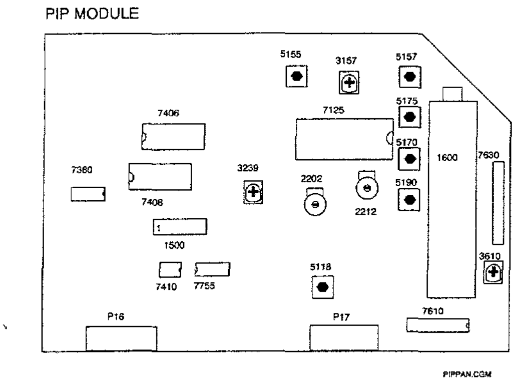
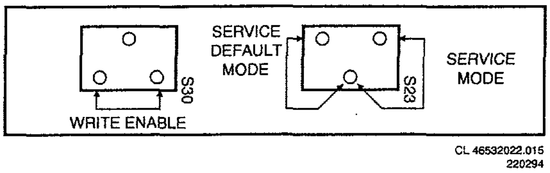


Fig. 7.8

7. Alignments in the Service Menu

The FL sets are equipped with EAROM protection. The EAROM protection will only work if pin 1 of IC7137 is high. If this point is made low by the pins of S30 on the SSP, the protection is switched off and the protected area can once more be written to. During adjustment in the service menu these pins must therefore remain connected together continuously.



7.1 Switch in the Service Menu by momentarily connecting together pins 2S323 and 1S323 on the small signal panel (diagram H). The Service Menu will then appear on the screen. The procedure is as follows:

- *Select the required alignment with the* coloured keys A to E.
- Change the values set using the "Menu +/-" key.
- Store the values set in the EAROM and leave the Service Menu by selecting STORE.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

7.2 White Drive Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).
Switch the Service Menu in.
Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 44.
The factory setting for blue is then approx. 44.
The factory setting for red is then approx. 21.

7.3 Cut-off Alignment

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
Select a black picture (e.g. VCR1).
Switch the service menu in.
Set the brightness level so that the picture just (but clearly) illuminates.
Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness.
(At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 28.
The factory setting for blue is then approx. 33.
The factory setting for red is then approx. 25.

7.4 Option Alignment

The microprocessor communicates with a great number of components in the set. For correct communication the microprocessor has to know what IC's and modules are present in the set. This is done using option codes. An incorrectly set option code will give a communication problem and an accompanying error code. Every function has been allocated a value. The sum of 8 values forms an option code. This number can vary from 0 to 255. The option code tables are given at the end of this paragraph.

For

Opt
Fun
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PIP
NTS
NIC
2nc

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Fun
10C
10C
Cor

Opt

Opt
Fun
16:

Opt

Opt
Fun
50H
FL2
DA
Mo
Pict

Opt

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For example, a set has:

Option code 1

Function	*Value*
Front end FQ916/ME/IF	2
PIP module	8
NTSC-M	16
NICAM module	64
2nd front end on PIP module	128 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
100 Hz Digital Scan	4
100 Hz Digital Scan	64
Comb Filter	128 +

Option code 2 is now:	**196**

Option code 3

Function	*Value*
16:9 PTV	64 +

Option code 3 is now:	**64**

Option code 4:

Function	*Value*
50Hz-PIP	2
FL2/4 model	4
DAF	8
Mozaik screen on	32
Picture rotation	128 +

Option code 4 is now:	**174**

Option code 5

Function	*Value*
Third SCART (Euro AV3)	1
SCAVEM	2 +

Option code 5 is now:	**3**

Optioncode 1

Nbr.	Function
0	**Front end = FQ816 / FQ916** A reception of PAL BG or PAL BG and SECAM BG is now possible
1	**Front end = FQ844 / FQ944** Only reception of the UHF band is now possible
2	**Front end = FQ816/ME/IF / FQ916/ME/IF** Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	**Front end =FQ916/MF/IF** Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	**PIP module present** This makes it possible to show PIP (Picture in Picture) displays.
16	**NTSC-M reception possible** This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF or FQ916/ME/IF or FQ916/MF/IF
32	**SECAM DK module fitted** In this case transmissions using the SECAM DK system can also be received.
64	**NICAM module fitted** In this case the digital sound with NICAM transmission can be received.
128	**Second front end for PIP fitted** .If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

Optioncode 2

Nbr.	Function
1	**Not in use**
2	**Not in use**
4	**100Hz** 0 for 50Hz or 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 64 further.
8-32	**Not in use**
64	**100Hz** 0 for 50Hz 1 for 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 4 further.
128	**Comb-filter** Select this bit for sets with a comb-filter with IC7000 = MC141625 on the comb-filter module (number 16 of option code 4 should now be zero).

Optioncode 3

Nbr.	Function
1-32	**Not in use (SAT)**
64	**16:9 present**
128	**"Videocolor 36" Picture tube**

Optioncode 4

Nbr.	Function
1	**Teletext Peaking Filter on/off for LFR box (Scandinavia)** In Scandinavia this number must be selected .
2	**50Hz-PIP in a 100Hz set** Applies to FLx.x7. Applies to Digital Scan sets (FLx.x4/FLx.x6) with the Multi-PIP possibility. (This option is 0 for the FL1.14 36" (no Multi-PIP))
4	**FL2/4 model** (see chapter 4 also)
8	**16:9 picture tube with DAF (Dynamic Astigmatic Focus)** Recognisable by the potentiometers for 'Focus' and 'VG2 (SCREEN)'; these are located on the DAF unit instead of on the high voltage transformer (LOT).
16	**Not in use**
32	**Mozaik screen on/off**
64	**Not in use**
128	**Picture rotation possible (frame rotation) (16:9)**

Optioncode 5

Nbr.	Function
1	**Third SCART present**
2	**SCAVEM switchable present**
4	**Not in use**
8	**SCAVEM non switchable present**
16	**Auto TXT install enable**

8. Repair tips

1. The Service Default Mode

The FL is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

The definition of the fixed state in the service default mode is as follows:

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
  - * PAL/SECAM BG for Multi Europe
  - * PAL I for UK
  - * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins 2S323 and 3S323 on the small signal panel.

The service default mode can only be switched off by switching the set to stand-by. If the set is switched off and then on again using the mains switch or the mains plug, the service default mode will remain on.

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-
<MENU OFF>

1.3 Fault signals

To indicate that the set is in the service default mode, the following is displayed on the screen:

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4. Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.
When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

During the service default mode the set will accept all operating commands. When, however, the set is switched off and on, it will return to the state as defined above.

2. Error messages

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.**

In both FL1 and FL2/4 models the I^2C error messages are indicated by a combination of flashing LED's. In FL1 7 LED's on the front of the set are used. In FL2/4 only 2 LED's have been fitted to the front of the set: 'on' and 'stand-by'; for service purposes the 7 LED's have been fitted inside the set in an SMD version. These are located on the solder side of the panel with buttons for local control. The 2 LED's on the front of the set are connected in parallel with the corresponding service LED's.

Figure 8.1 illustrates the situation for FL1 and FL2/4. A table of error messages is provided at the end of this chapter.

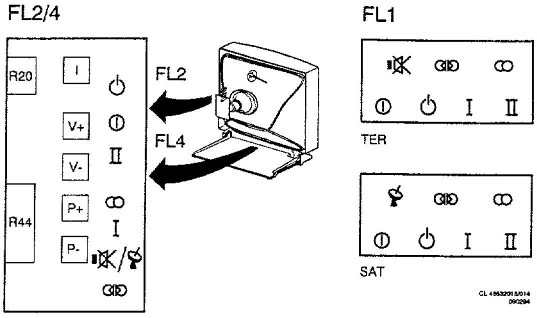


Fig. 8.1

3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.
If the service mode is now activated
(see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.
All options have also to be set, the programs installed and the personal preference set.

4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.
The code numbers for the extension prints are:

5-fold	4822 395 30261
6-fold	4822 395 30259
8-fold	4822 214 31402
9-fold	4822 395 30258
10-fold	4822 395 30257

5. Removing the PIP module

The PIP module can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition). Following the removal of the PIP module the signal path is broken. The signal path can be restored by placing the 5-core flat cable with connector S56 in connector foot S16 (see diagram D).
The error message can be removed through the application of the option codes (see chapter 7).

6. Extension cables

Extension cables are available to lead the large signal and small signal panel signals (LSP and SSP) separately out of the set. These are made up as follows:

4822 320 20209	Set of 6 cables for LSP and SSP connections.

See chapter 4 also.

7. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.
In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

1. Clear description of the fault
2. Indication of intermittent or continuous fault
3. Type/version number of the set
4. AG-production code and week/year number
5. Serial number

The defective modules should be complete and free of mechanical damage.
These facilities are offered for the modules below:

LFR box [L]+[M]	4822 212 31233	FL2.2X
LFR box [L]+[M]	4822 212 31313	FL2.24/58
LFR box [L]+[M]	4822 212 31314	FL2.24/62
100Hz box [L']	4822 212 31392	FL4.27

8 Diagnosis and protection

8.1 Hardware and software protection

In case any serious fault occurs in the set, one of the protection circuits will activate. A protection circuit switches of the main power supply (SOPS) via the stand-by input (STBY) of the SOPS control panel. This input is located on pin 1 of connector pin L40 with test point number TP56, and is illustrated on diagram A.
As the microprocessor is fed by a separate stand-by power supply (SOPS), the processor and the LED's will continue to operate, even when the main power supply is switched off.

A number of protection circuits can switch off the power supply independently and immediately (hardware protection). In two protection circuits the microprocessor itself switches off the power supply (software protection).

All protection circuits come together on the stand-by input (TP56 of the main power supply. A diagnosis determines which protection circuit is active.

8.2 Protection test point TP56 [diagram A]

The following voltages may be present on the stand-by input of the SOPS control panel (TP56): [see diagram A]

1	Approx. 17V	during operation;
2	0.5 - 1V	during hardware protection; (this value is maintained by a thyristor circuit formed by TS7380/TS7381);
3	0.5V	during stand-by and software protection.

8.3 Hardware protection:

1 Power supply voltage +13 from the SOPS too high (+V) [diagram A].
This protection circuit activates if the voltage in +13V circuit of the SOPS becomes too high during operation.

2 SOPS and/or +11/-11V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11V and -11V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.
This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

3 Beam current too high (I-BEAM) [diagram B]
When the beam current becomes too high this protection circuit switches off the power supply. Before this protection circuit can activate the picture will first illuminate brightly. This fault occurs for example on the absence of the +200V power supply voltage on the picture tube panel.

4 Deviating LOT behaviour (EHT, LOT-PROT) [diagram B].
This protection circuit becomes active when a 'unusual' voltage forms appear on the LOT outputs (5555). This may indicate defective or loose components in the line deflection circuit. (LOT, switching transistors, capacitors).

5 East/west output stage defective [diagram B].
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period.
(the base-emitter voltage Ube from T7542 is then momentary greater than 0.6V).

6 Vertical deflection end stage (IC7450) defective [diagram B].
The frame output stage IC7450 has a protection output (pin 7, TP62). This output becomes momentarily high on any defect in this IC or during the absence of the power supply voltage.
During normal operation there are short pulses on this output.
The frame output stage is fed by a winding on the LOT (5555) (+28V or +32V).
During diagnosis a check should be made whether the +28/+32V power supply voltage continually drops before the protection circuit output is activated. If this is the case then one of the other protection circuits is responsible for switching out the power supply.

By measuring the timing pulses between the protection output (pin 7) and the power supply voltage (pin 6) in relation to earth (pin 2 or 4) it can be determined whether the protection is originating from the frame output stage. The protection circuit overview at the end of this chapter provides a schematic overview of the measurements.

8.4 Software protection

8.4.1 *Error message 99*

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I^{2}C signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed.
Software protection can be switched out by activating the 'Service Default Mode' (see §1).

If the +13V or +5V are absent as a result of hardware protection switching out the power supply, error message 99 will be displayed by the LED's following a short period, as the microprocessor is no longer receiving any signal from the connected IC's. The processor now bridges the hardware protection via the STBY signal. Each hardware protection will therefore eventually result in software protection, resulting in error message 99 being displayed.

During hardware protection the microprocessor makes repeated attempts to communicate with the connected I^{2}C-IC's before making a decision for software protection.
During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the I^{2}C-IC's responds in this period various error messages will be displayed by the LED's. If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

When the microprocessor generates a STBY signal for implementing software protection TP56 will be made lower than 0.5V by the STBY signal, through which any eventual hardware protection on TP56 will be bridged. In order to determine whether hardware protection is active via TP56 the voltage on TP56 should be measured with the set in the 'Service Default Mode' or measured before error message 99 appears on the LED display.

8.4.2 *Software protection*

7 +5V on the small signal panel (SSP) [diagram B and C]
To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting, the front-end (1160 [diagram C]) must provide a signal to the microprocessor via IC within a specific time.
If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more.
To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I^{2}C to the microprocessor within a specific time. If none of these three IC's provides any signal the microprocessor switches the main power supply into stand-by. The LED's indicate error code 99.

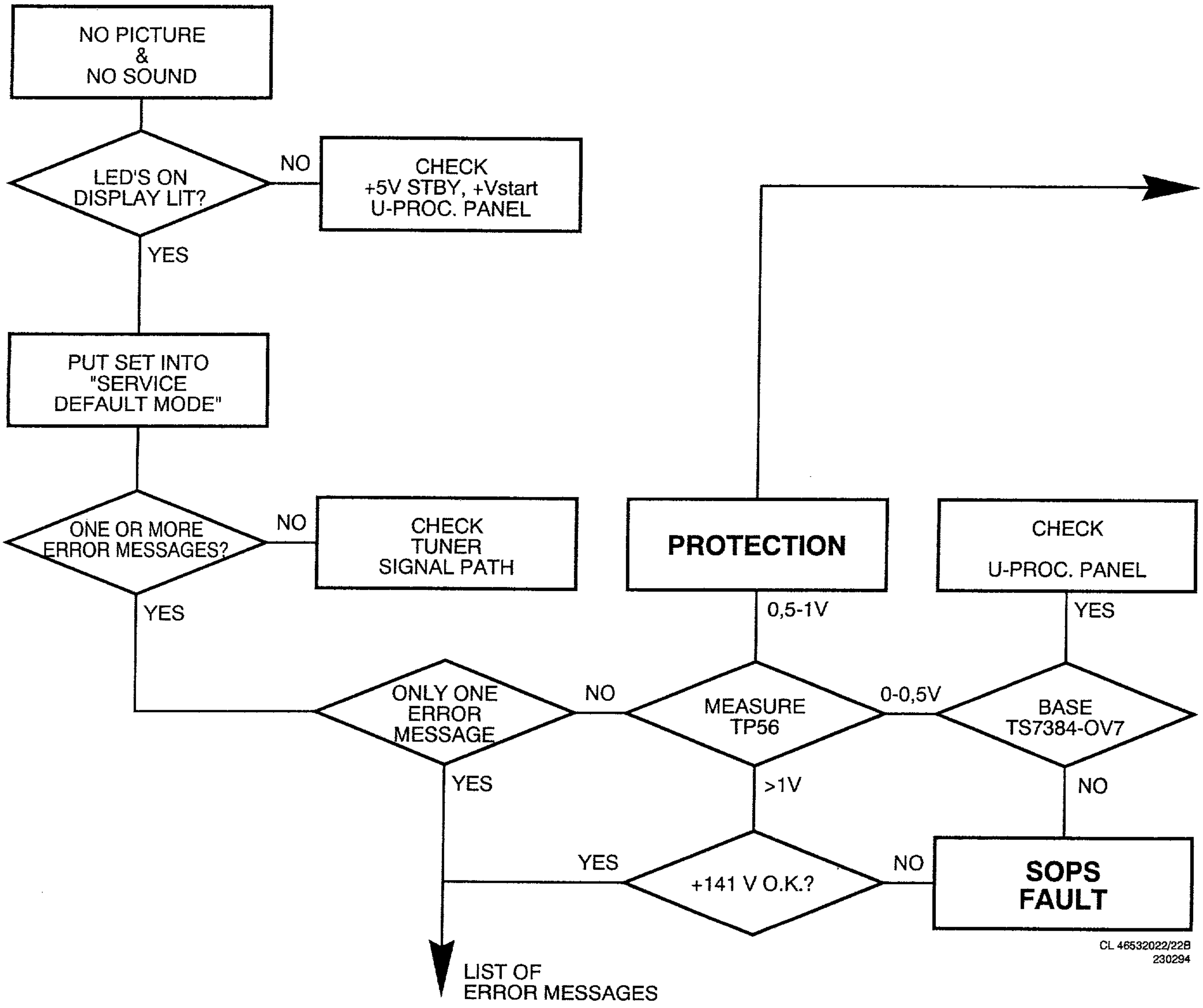
9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).
When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.
To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.
The operation of the SAT box power supply [diagram O] can be checked as followed:
Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].
When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

8.5 Measurements in the protection circuits.

All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:
- normal operation
- protection caused by this circuit (PROT);
- protection caused by another protection circuit (N-PROT).

Faultfindingtree

Prote


NO PICTURE & NO SOUND
LED'S ON DISPLAY LIT?
NO
CHECK +5V STBY, +Vstart U-PROC. PANEL
YES
PUT SET INTO "SERVICE DEFAULT MODE"
ONE OR MORE ERROR MESSAGES?
NO
CHECK TUNER SIGNAL PATH
YES
ONLY ONE ERROR MESSAGE
NO
YES
MEASURE TP56
0,5-1V
PROTECTION
0-0,5V
BASE TS7384-OV7
YES
CHECK U-PROC. PANEL
NO
SOPS FAULT
>1V
+141 V O.K.?
YES
NO
LIST OF ERROR MESSAGES
CL 46532022/22B
230294

Protection

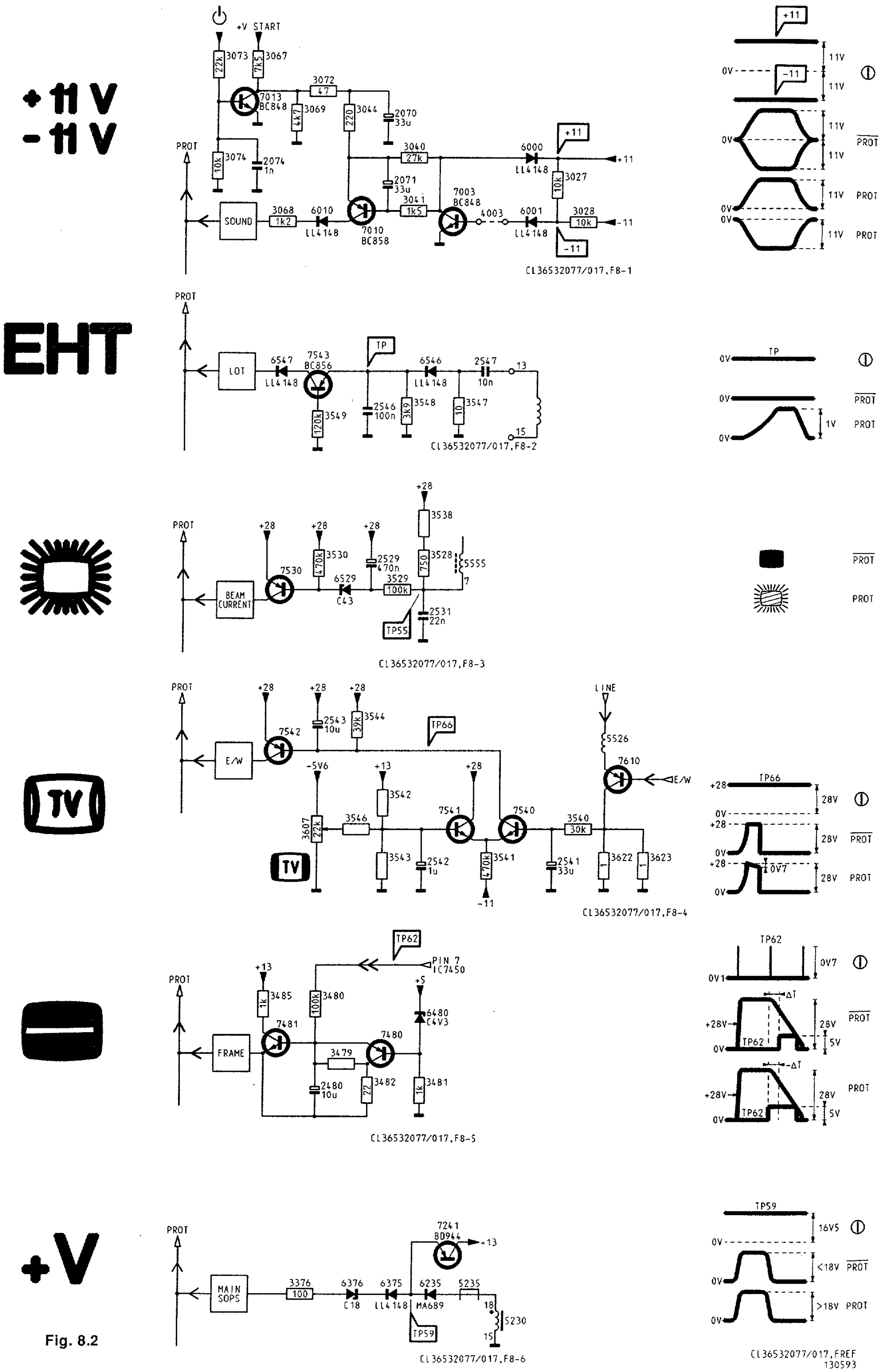

+11 V
-11 V
+V START
3073 22k
3067 7k5
7013 BC848
3072 47
3069 4k7
3044 220
2070 33u
PROT
3074 10k
2074 1n
3040 27k
6000 LL4148
+11
3027 10k
2071 33u
3041 1k5
7003 BC848
SOUND
3068 1k2
6010 LL4148
7010 BC858
4003
6001 LL4148
3028 10k
-11
CL36532077/017,F8-1
11V
0V
PROT
EHT
LOT
6547 LL4148
7543 BC856
TP
6546 LL4148
2547 10n
13
2546 100n
3548 3k9
3547 10
3549 120k
15
CL36532077/017,F8-2
1V
+28
3538
3530 470k
2529 470n
3528 750
5555
7530
6529 C43
3529 100k
7
BEAM CURRENT
TP55
2531 22n
CL36532077/017,F8-3
LINE
2543 10u
3544 39k
TP66
7542
E/W
5526
7610
-5V6
+13
3542
7541
7540
3540 30k
3607 22k
3546
3543
2542 1u
3541 470k
2541 33u
3622 1
3623 1
TV
28V
0V7
CL36532077/017,F8-4
TP62
PIN 7 IC7450
+5
3485 1k
3480 100k
6480 C4V3
7481
7480
FRAME
3479
2480 10u
3482 22
3481 1k
CL36532077/017,F8-5
ΔT
-ΔT
5V
+V
7241 BD944
MAIN SOPS
3376 100
6376 C18
6375 LL4148
6235 MA689
5235
18
5230
TP59
CL36532077/017,F8-6
16V5
<18V
>18V
CL36532077/017,FREF 130593

Fig. 8.2

List of error messages

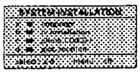
Error number on screen	Flashing LED							Description of error
	🛰 / 🔇	⧉	∞	①	⏻	I	II	
1[1]			X		X	X		I^2C, IC7108, SSP [H] (MSM6307)
3					X	X		I^2C, IC7215, 100Hz SAA 9042 [L] I^2C, IC7111, TXT SAA 9042 [L']
4				X		X		I^2C, IC7220, 100Hz [M] [L'} J83C652
5				X			X	I^2C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I^2C, IC7600, SSP [F] (TDA8417)
7							X	I^2C, IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Y], PCF8574 (16:9)
9			X	X		X		I^2C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I^2C, IC7395, SSP [D] (TDA8443)
11				X	X			I^2C, front-end, SSP [C] (FQ 9XX)
12						X		I^2C, IC7137, SSP [H] (X24C04)
13			X					I^2C, bus on chassis blocked
14			X	X				I^2C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I^2C, IC7219, SSP [C] (TEA6414)
16			X			X		I^2C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, μ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, μ proc. [H]
20				X	X	X	X	7115, SSP, μ proc. [H]
21				X				EAROM X24C08 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I^2C, IC7080, convergence panel [V] (TDA8444) (PTV)
28		X						I^2C, PIP tuner [J]
29		X			X			I^2C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I^2C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I^2C, IC7001, NICAM-panel [K] (SAA7280)
33		X		X				I^2C, PLL (1500) PIP modulo [J]
34[1]	X		X				X	LNC supply on SAT box [Q,R] not correct
35[1]	X		X		X		X	IM-bus on SAT box [Q,S] blocked
36[1]	X		X	X			X	I^2C, bus on SAT box blocked
37[1]	X		X	X	X		X	I^2C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I^2C, SAT Tuner [Q] (SF914; SF916)
39[1]	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1]	X		X	X		X	X	D2-MAC [S]
41[1]	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42[1]	X				X		X	IC7250, TUNER/CONTROL [Q]
43[1]	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q]
44[1]	X			X	X		X	SAT Tuner [Q] (SF914/916)
45[1]	X					X	X	IC7250, TUNER/CONTROL [Q]
46[1]	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47[1]	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48[1]	X			X	X	X	X	D2-MAC [S]
49[1]	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1]					X	X	X	IC7250, TUNER/CONTROL [Q]
52[1]			X				X	D2B Bus EXT, SSP [H] blocked.
53			X			X	X	IC7330, MAC TXT [S], TPU2735
55			X	X		X	X	IC7140, Panorama [B], PCF8574 (16:9)
99	X		X		X			Protection

[1] This error is only possible on sets with built in SAT box.

- **The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.** In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

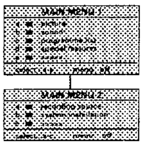
Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers. To do this, follow the directions of the SYSTEM INSTALLATION menu very closely.
The installation menu is shown as it will appear on your screen.


SYSTEM INSTALLATION

Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The MAIN MENU is shown here as it will appear on the screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you doing this.


MAIN MENU 1
MAIN MENU 2

- o This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menus off again.

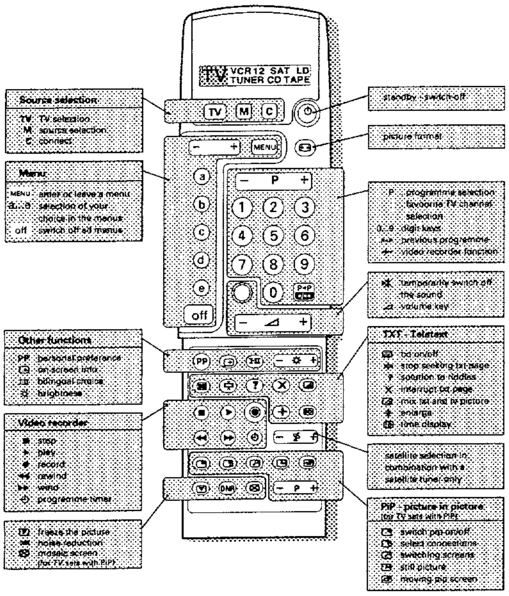
Contents

Installation

Selecting your Menu language
Searching for and Storing TV channels :
- Automatic
- Manual

Operation

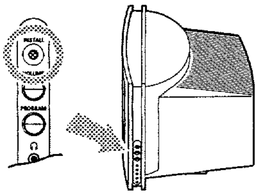
Operation
Main Menu
Other Functions
Pip Picture in Picture
Teletext
Peripheral Equipment
Tips


TV VCR 12 SAT LD TUNER CD TAPE
Source selection
TV TV selection
M source selection
C connect
standby - switch-off
picture format
Menu
MENU enter or leave a menu
a...e selection of your choice in the menus
off switch off all menus
P programme selection favourite TV channel selection
0...9 digit keys
previous programme
video recorder function
temporarily switch off the sound
volume key
Other functions
PP personal preference
on-screen info
bilingual choice
brightness
TXT - Teletext
txt on/off
stop seeking txt page
solution to riddles
interrupt txt page
mix txt and tv picture
enlarge
time display
Video recorder
stop
play
record
rewind
wind
programme timer
satellite selection in combination with a satellite tuner only
freeze the picture
noise reduction
mosaic screen (for TV sets with PiP)
PiP - picture in picture (for TV sets with PiP)
switch pip on/off
select connections
switching screens
still picture
moving pip screen
TV M C MENU a b c d e off P 1 2 3 4 5 6 7 8 9 0 PP DNR

Selecting your menu language

You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

- o Press the INSTALL key on the right side of your TV set.

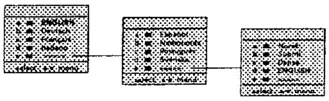

INSTALL
VOLUME
PROGRAM

If the message CHILD LOCK ON appears, the child lock should be switched off. See Special Features.
- ▷ The SYSTEM INSTALLATION menu appears on the screen.

SYSTEM INSTALLATION

It is also possible to enter the installation menu via the main menu. See Main Menu.

- o Press the red key a on the remote control.
- ▷ The language menu appears on the screen.



- o Press the colour key of your language choice.
- o Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.

> LANGUAGE STORED appears for a moment at the top of the menu.
The language menu disappears and the SYSTEM INSTALLATION menu appears again.

Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
This can be done in two different ways : automatically or manually.

Automatic installation.................................. or

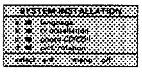
All TV channels are searched for and stored automatically. The programme numbers are filled in the programme list.
If desired you can modify the allocation of the channel numbers of one or more stored TV channels afterwards and delete or insert TV channels.

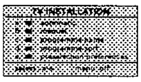
Manual installation...

The manual installation is characterised by the possibility to select the way of searching with frequencies.
You yourself must assign a number of your choice to the TV channel located.

Follow very closely and step by step the instructions of the Manual Installation procedure.
You must go through every step.

- o Press the green key b in the SYSTEM INSTALLATION menu.
- ▷ The TV INSTALLATION menu appears.


SYSTEM INSTALLATION


TV INSTALLATION

Automatic installation

- o Press the red key a.
- ▷ AUTOMATIC lights up.
- o Press MENU + to select YES.
- ▷ SEARCHING, PLEASE WAIT appears and the TV is searching all the channels you can receive.

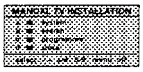
The automatic installation can be interrupted by pressing the MENU or OFF key.

- ▷ Every time a channel is found it is automatically stored in the memory under the next programme number in the programme list.
- ▷ When all channels are found the message TV INSTALLATION COMPLETED is displayed briefly on top of the menu.
The programme list is automatically filled with all the programme numbers of the TV channels transmitted.
The programme list is displayed without programme names.
Now you yourself must assign a name to the TV channels located.

> The menu TV INSTALLATION appears again.

Manual TV installation

- o Press the green key b in the menu TV INSTALLATION.
- ▷ The menu MANUAL TV INSTALLATION appears.


MANUAL TV INSTALLATION

step a Selecting the TV system

The television picture is not broadcast in the same way in all countries.
We speak of different television systems (PAL, SECAM, NTSC, ...).
Now you must select the TV system **yourself**.

- o Press the red key a.
- ▷ The SELECTING THE SYSTEM menu appears....... or

1 You have your own aerial.
- o Press the colour key of the country or part of the world from where you want to select the TV channel.
- ▷ The MANUAL TV INSTALLATION menu now appears.
- ▷ Your selection lights up.

2 You are connected to the cable system.
- o Press the colour key of the country or part of the world where you now are located.
- ▷ The MANUAL TV INSTALLATION menu now appears.
- ▷ Your selection lights up.

Go on to step **b**.

ONLY ONE SYSTEM AVAILABLE appears ....

You have a set that can receive only one system.
You do not need to make any selection.

Go on to step **b**.

If you have pressed the wrong key, then repeat step **a**.

step b Searching for a TV channel

- o Press the green key **b**.
- ▷ SEARCHING appears and the TV is searching for a channel.
- ▷ The frequency increases until a channel is found.

Go to step **c** if you want to store the channel that has been found.

- o Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The MANUAL TV INSTALLATION menu disappears temporarily.

Do you want a different channel or is the reception poor?
- o Press the green key b again.

Is the reception still poor? See Tips.

Fine-tuning :

You may be able to improve the reception of picture and sound of a TV channel. Adjust the frequency yourself with the MENU - or + key on the remote control.

Direct selection of a TV channel :

If you know the frequency of a TV channel, you can enter it directly with the digit keys on the remote control and in this way call up the TV channel.
Ask for a list of the frequencies at your cable company or at your dealer.

- o Enter the 5 digits of the desired frequency.
- o For frequencies under 100 MHz, first enter a 0. For example : 063.25.

Have you entered a wrong number?
First complete the frequency with arbitrary numbers and then start again.

Go on to step c.

step c Entering the programme number

Now you must assign a number of your choice to the TV channel located. In this way you decide for yourself the order of all your TV channels.
With the assigned programme number you can call up your TV channel again later.

- o Press the yellow key c.
- ▷ Hold down the **P** - or + key or use the digit keys on the remote control until the desired programme number appears in the menu.

Go on to step **d**.

step d Storing steps a to c

Now the TV system, the located TV channel and its programme number must be stored in the memory.

- o Press the blue key d.
- ▷ PROGRAMME STORED appears briefly at the top of the menu.
- ▷ The TV channel is stored in the memory.

repeat Do you want to store another TV channel?

- ○ Repeat steps a to d.

Are you connected to the cable system?

- ○ Begin immediately with step b. You have already selected the TV system in step a for all channels.

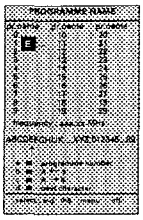
out Have you finished locating TV channels?

- ○ Press MENU.
- ▷ The TV INSTALLATION menu appears again.

Entering or modifying a programme name

Now you yourself must assign a name to the TV channels located. A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1, ...

- ○ Press the yellow key c.
- ▷ The PROGRAMME NAME menu and the programme list appear. Also the frequency of the current TV channel is displayed.
- ○ Press ⊞ under the door of the remote control to recognise which programme is being broadcast.
- ▷ The menu PROGRAMME NAME disappears temporarily.
- ○ Press the red key a.
- ○ *Select the* TV channel of which you want to change the name or to which you want to assign a name with the digit keys or with **P** - or +. External sources can not be selected with **P** - or +.



In the list you can now modify or enter the name of the TV channel. With the arrow under the letter and number line you select which letter or number in the list above you wish to enter. In the list there is a red or white block next to the chosen programme number.

- ○ Hold as desired, either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
- ▷ The letter or number that you indicate with the arrow appears in the block.
- ○ Press the blue key d.
- ▷ The block moves over one space. Now you can choose a following letter or number with the arrow.
- ○ Place the arrow between Z and 0 for a space.

Did you fill in a wrong letter or number?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or number.

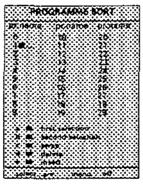
Are the complete names filled in?

- ○ Press MENU.
- ▷ The TV INSTALLATION menu appears again.

Modifying the programme list

According to your preference you can modify the programme list of the stored TV channels by swapping, deleting or inserting certain TV channels.

- ○ Press the blue key d.
- ▷ The PROGRAMME SORT menu appears.



a. swap

With the swap-function you can modify the allocation of the stored TV channels.

- ○ Press the red key a.
- ▷ FIRST SELECTION lights up.
- ○ Select the programme number of the TV channel of which you want to modify the programme number with the digit keys or with **P** - or +.
- ○ Press the green key b.
- ▷ SECOND SELECTION lights up.
- ○ Select the programme number of the TV channel which you want to swap with the programme number selected in your first selection.
- ○ Press the yellow key c.
- ▷ PROGRAMMES SWAPPED appears briefly at the top of the menu.
- ▷ The TV channels and their names selected in the first and the second selection are swapped.
- ○ Repeat this for all the other TV channels you want to replace.

b. delete

- With the delete-function you can remove the TV channels you do not like to have in the programme list anymore.
- ○ Select, with the digit keys or with **P** - or +, the programme number you want to delete.
- ○ Press the blue key d.
- ▷ DELETE lights up and the programme number and name of the TV channel to be deleted starts flickering in the FIRST or SECOND SELECTION line.
- ○ Press MENU + to select YES.
- ▷ DELETING PROGRAMME appears briefly at the top of the menu.
- ▷ The selected TV channel is deleted, its place is taken by the next programme and the subsequent programme numbers are shifted up one place.
- ○ Repeat this for all the other TV channels you want to delete.

c. insert

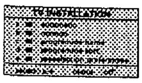
You can add a TV channel at the place you like in the programme list with the insert-function of the programme sort menu.

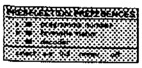
- ○ Press the red key a.
- ▷ FIRST SELECTION lights up.
- ○ Select, with the digit keys or with **P** - or +, the programme number where you want to create an empty place to insert a new TV channel.
- ○ Press the white key e.
- ▷ INSERT lights up.
- ○ Press MENU + to select YES.
- ▷ INSERTING PROGRAMME appears briefly at the top of the menu.
- ▷ All the programmes starting from the one indicated in the programme list are shifted one place downwards. The programme number of the empty place appears in red. You can now insert a new TV channel with the MANUAL TV INSTALLATION method. See earlier.

Are all the TV channels allocated as you like ?

- ▷ Press MENU.
- > The TV INSTALLATION menu appears again.

Preselection preferences





All the stored TV channels have been automatically placed into the programme list. In the PRESELECTION PREFERENCES menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.
You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.
This will make selecting your favourite TV channels a lot easier and faster.
When you run quickly through the TV channels by holding the **P** - or + key pressed down, only those TV channels which are in the favourite list will be displayed.
When you select a TV channel with the digit keys, the indication of the selected TV channel will be displayed in white characters when it is a TV channel from the favourite list, in red characters when it is a TV channel which is not in the favourite list.

a Favourite TV channels

- ○ Press the white key e in the TV INSTALLATION menu.
- ▷ The PRESELECTION PREFERENCES menu appears.
- ○ Press the red key a.
- ▷ PROGRAMME NUMBER lights up.
- ○ Select the programme number of a TV channel with **P** - or + or with the digit keys.
- ○ *Press the green key* b.
- ▷ FAVOURITE STATUS lights up.
- ○ Press MENU - or + to select NO or YES. In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
- ○ Repeat this for each programme number.

b Decoder

In case you have connected a decoder, see Decoders, you can define one or more programme numbers as a decoder preselection.

- ○ Press the red key a in the PRESELECTION PREFERENCES menu.
- ▷ PROGRAMME NUMBER lights up.
- ○ Select the programme number under which you want to store the programme coming from your decoder with **P** - or + or with the digit keys.
- ○ Press the yellow key c.
- ▷ DECODER lights up.
- ○ Press MENU - or + repeatedly until the designation EXT1 or EXT2 appears according to the euroconnector to which you connected your decoder. This is not possible with a decoder connected to EXT3. Select NO if you do not want the selected programme number being activated as a decoder preselection.
- ○ Press MENU twice.
- ▷ The SYSTEM INSTALLATION menu appears again.

Photo CD/CD-I

In case you have connected a photo Compact Disc or a Compact Disc Interactive see Peripheral Equipment.

- ○ Press the yellow key c in the SYSTEM INSTALLATION menu.
- ▷ PHOTO CD/CD-I lights up.
- ○ Press MENU + to select YES.
- ▷ This offers you an optimum picture quality for your Photo CD or CD-I.

Picture rotation

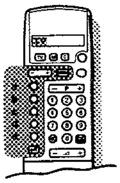
- ○ *Press the blue key d in the SYSTEM INSTALLATION menu.*
- ▷ PICT. ROTATION lights up.
- ○ Press MENU - or + repeatedly to adjust the rotation of the picture.
- ○ Press **off** to exit the SYSTEM INSTALLATION menu.

Operation

Standby

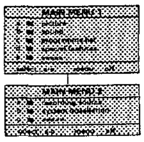
- ○ With the standby key ⏻ *at the top of the remote control you can* temporarily switch the TV off.
- ▷ The red lamp on the TV lights up.
- ○ Press the C-key or a digit key in order to turn the TV on again. If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby. Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise you to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

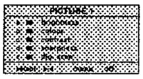


The main menu is split into 2 menus and you can:
. adjust **picture** and **sound** according to personal preference
. call up a **programme list** with an overview of the TV channels stored
. select from among various **special features**
. select **recording sources** for your video recorder
. enter the **system installation** menu.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears.
- ○ Press **off** to switch off each menu.

Adjusting the picture

- ○ Press MENU.
- ○ Press the corresponding colour key for PICTURE.
- ▷ The PICTURE 1 menu appears



- ○ Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, also the option **tint** appears in the PICTURE 2 menu.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key once more in order to select another adjustment.

Do you want to store the changed adjustment in the memory ?

- ○ See Special Features, PP store.

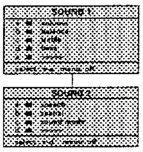
Digital scan (Line Flicker Reduction)
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- ○ Press the corresponding colour key for DIG. SCAN.
- ○ Press MENU - in order to switch off the line flicker reduction.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

Adjusting the sound

- ○ Press MENU.
- ○ Press the corresponding colour key for SOUND.
- ▷ The SOUND 1 menu appears.



Volume, balance, treble, bass

- ○ Press one of the colour keys to select the adjustment you want to regulate.
- ▷ The selected adjustment lights up.
- ○ Press MENU - or + in order to regulate the selected adjustment.
- ○ Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears.
- ○ See Special Features, PP store, .

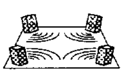
Speech

- ○ Press the white key e in the SOUND 1 menu.
- ▷ The SOUND 2 menu appears.
- ○ Press the corresponding colour key for SPEECH.
- ▷ SPEECH lights up.
- ○ Press MENU + to reveal the treble and to suppress the bass.
- ○ Press MENU - to switch off.

Spatial and surround sound

- ○ Press the corresponding colour key for SPATIAL in the SOUND 2 menu.
- ▷ SPATIAL lights up.
- ○ Press MENU - or + to switch off or on.
- ▷ When SPATIAL ON is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.

You achieve a Surround Sound effect if you have **2** or for a maximum effect **4** extra loudspeakers connected. See Peripherals.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- ○ Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ○ Place the loudspeakers in the corners of an imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT and REAR.

- ○ Select SPATIAL ON.
- ▷ You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.

- ○ Select SPATIAL ON.
- ▷ You get a spatial stereo effect.

Sound mode

- ○ Press the corresponding colour key for SOUND MODE in the SOUND 2 menu.
- ▷ SOUND MODE lights up.
- ▷ If the TV channel which you are now watching transmits stereo or digital sound and if your set is equipped with Nicam, you can choose between :
  . **stereo** or **mono** if the TV channel transmits *stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- ○ Select **analogue** or **mono** in case of weak digital or stereo sound signals.
- ○ Press MENU - or +.

If you do not make a sound choice for the TV channel which you are watching your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

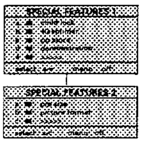
Programme list

- ○ Press the corresponding colour key for PROGRAMME LIST in MAIN MENU 1.
- ▷ A list with an overview of the first 30 stored TV channels appears.
  TV channels from the favourite list are displayed in white characters.
  TV channels which are not in the favourite list are displayed in red characters.
- ○ Press MENU - or + to run through the other pages (to 99) of the programme list.
- ○ Press MENU.
- ▷ The MAIN MENU 1 appears again.

- ○ Press **off**.
- ▷ The MAIN MENU disappears.

Special features

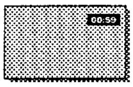
- ○ Press MENU.
- ○ Press the corresponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES 1 menu appears.



- ○ Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration, pip size (for sets with the Picture in Picture option) or picture format.
- ▷ Your choice lights up.
- ○ Press once more on a colour key to make another choice.

Child lock
If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.
If the message CHILD LOCK ON appears, the child lock should be switched off.

- ○ Press the corresponding colour key for CHILD LOCK.
- ○ Press MENU - or + to switch the child lock off or on.



Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.

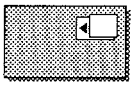
- ○ Press the corresponding colour key for SLEEPTIMER.
- ○ Hold the key MENU + pressed down.
- ▷ The counter runs from **off** up to **90** minutes.
- ○ Hold the key MENU - pressed down.
- ▷ The counter runs from **90** down to **off**.
  If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
  You can always switch off your set earlier or change the time set.

PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the **PP** key.

- ○ Press the corresponding colour key for PP STORE.
- ▷ PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.
  See also Other functions.

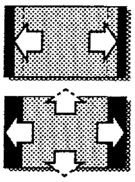
Demonstration
This function demonstrates one after another all the possible options of your TV.

- ○ Press the corresponding colour key for DEMONSTRATION.
- ○ Press MENU + to switch the demonstration on.
- ○ Press **off** in order to stop the demonstration.



Pip size
You can select either a large or a small pip format.

- ○ Press the corresponding colour key for PIP SIZE in the SPECIAL FEATURES 2 menu.
- ○ Press MENU - or +.
  For more information about Pip, see Pip, Picture in Picture.



Picture format
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.

- ○ Press the corresponding colour key for PICTURE FORMAT.
- ○ Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional, a panoramic or a full expanded picture format.

Recording Source

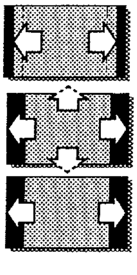
If you want to record a programme, then first read Peripherals, Recording.

System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.

Other functions

Picture format



- ○ Press ⊡ repeatedly to select
  . or a conventional picture format
  . or a panoramic picture format
  . or a full expanded picture format
  . or a wide screen picture format.
- ▷ The information PANORAMA appears briefly on the screen if a panoramic picture format has been selected.
- ▷ The information MOVIE EXPAND appears briefly on the screen if a full expanded picture format has been selected.
- ○ Keep MENU + pressed to move the full expanded picture upwards so that the subtitles, if there are, become visible at the bottom.
- ○ Keep MENU - pressed to move the full expanded picture downwards again.
- ▷ The information WIDE SCREEN appears briefly on the screen if a wide screen picture format has been selected.

Making subtitles visible from pictures from VCR1, VCR2 or SAT in the MOVIE EXPAND picture format

- ○ Press the **TV** key on the remote control.
- ○ Keep MENU + or - pressed to move the picture upwards or downwards again.
- ○ Press the **M** again until the designation **VCR1**, **VCR2** or **SAT** appears in a grey block.
- ▷ Now you can operate your video recorder 1 or 2 or satellite tuner again with the remote control of the TV.

Previous programme

- ○ Press the P◂P key.
- ▷ The previous selected TV channel is displayed again.
  The -/-- indication has a video recorder function.

Selecting satellites

The keys ⚶ - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

PP key

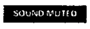
With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** in the Special Features menu.

○ Open the door of the remote control.
○ Press **PP**.

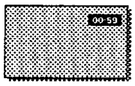
Information on screen

After the selection of a TV channel the following information appears briefly on your screen :

. the programme number and name of the selected TV channel
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. SOUND MUTED when the sound is temporarily interrupted
. the name of the pip connection if pip is switched on.
See Pip-Picture in Picture.
. DUAL I or II in case of bilingual broadcast.



○ Open the door of the remote control.
○ Press ⊞ **short**.
▷ The channel information appears on the screen for a few seconds.
▷ If the sleeptimer is on, then the remaining time becomes visible.



Permanent programme number

○ Open the door of the remote control.
○ Press ⊞ **long**.
▷ The channel information appears on the screen for a few seconds and the permanent programme number remains in the upper right hand corner of the screen when it was off, or disappears when it was on.

Bilingual Broadcast

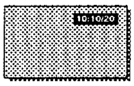
If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

○ Open the door of the remote control.
○ Press key I-II and select language I or II.
▷ DUAL I or II appears for a moment on top of the screen.
The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.

Time

The time can only be called up if the TV channel you are watching is also broadcasting teletext.
Teletext does not need to be switched on.

○ Open the door of the remote control.
○ Press ⊡.
▷ The time appears in the upper right hand corner of the screen.
○ Press ⊡ again in order to switch off.



Freezing the picture

When watching you can freeze the picture at any moment.

○ Press ⊽.
○ Press ⊽ again to return to normal picture.

DNR

With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

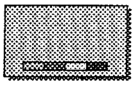
○ Press the DNR key repeatedly to select DNR MIN, DNR MED, DNR MAX or DNR OFF.
▷ Your selection appears for a moment on top of the screen.
DNR MED offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
DNR MAX is **not** necessary when the picture quality is good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.

Mosaic screen

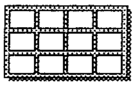
With the mosaic screen, you can scan the TV channels stored in the favourite list, display successive frozen pictures with the photo finish function and reproduce the main picture image by image with the strobe function.

○ Press ⊠.
▷ A menu line appears on the bottom line of the screen. It contains four functions, each having another background colour, corresponding to the menu colour keys.
○ Press the corresponding colour key to activate one of the 4 functions.



Scan

○ Press the red key a.
▷ A scan of the stored TV channels is performed, starting with programme number 0.
Only TV channels placed in the favourite list or programmes from switched on peripherals are displayed. On the last position, bottom right, a live picture is shown of the programme that was displayed before the mosaic screen was switched on.
○ Press the red key a again.
▷ A following series of stored TV channels from the favourite list or programmes from switched on peripherals is scanned.
Each mosaic-picture will contain its belonging programme number.
○ Select a TV channel with the digit keys.
▷ The mosaic screen disappears and the selected TV programme will be displayed.
○ Press the blue key d to interrupt the scan function and to switch off the mosaic screen.



Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1, 2 *or* 3 *and when having selected an option in the Recording Source menu since the scan will be recorded on tape.*

Photo finish

○ Press the green key b.
▷ The main picture is displayed in successive frozen pictures.
The last picture on the bottom right will remain live.
○ Press the green key b again.
▷ A new photo finish picture is displayed, overwriting the old one.
○ Press the blue key d to switch off the photo finish function and to switch off the mosaic screen.
▷ The programme that was selected before the mosaic screen was switched on, appears again.

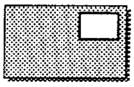
Strobe

○ Press the yellow key c.
▷ The picture is reproduced image by image. So you get an interrupted movement.
○ Press the yellow key c again.
▷ The picture is reproduced image by image in a faster way.
○ Press the yellow key c once again.
▷ The strobe function is switched off.
○ Press the blue key d to switch off the mosaic screen.

Pip - Picture in Picture

Switching pip on and off

○ Open the door of the remote control.
○ Press ▣.
▷ The pip screen appears and the image is the same as in the main screen.
▷ The name of the pip programme appears briefly on the main screen.
○ Press ▣ again to switch pip off.

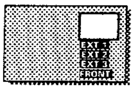


Selecting pip programmes

○ Press - P + of the pip keys in order to change the TV channels in the pip screen.

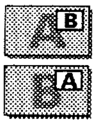
Selecting pip connections

○ Press ▣ repeatedly.
▷ The name of the connections appear.
If any other electronic unit is connected with a eurocable and switched on, its programmes appear in the pip screen.
Use - P + of the pip keys in order to change the TV channel in the pip screen.
For connecting equipment to EXTERNAL 1, EXTERNAL 2, EXTERNAL 3, FRONT, see Peripheral Equipment.



Switching screens

○ Press ▣.
▷ The main screen and the pip screen exchange places.
If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

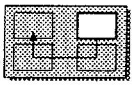


Still Picture

○ Press ▣.
▷ The picture in the pip screen stands still.
Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
○ Press ▣ again or select another channel in the pip screen in order to cancel the still picture.

Moving the Pip screen

○ Press ▣.
▷ Each time you press this key, the pip screen moves to another corner of the main screen.

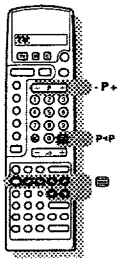


If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

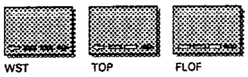
Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems: WST, TOP, FLOF. The system utilised is indicated in the options line at the bottom of the screen.



Switching Teletext On and Off

○ Select the TV channel for the desired teletext broadcast.
Teletext cannot be switched on when there is a menu on the screen.
○ Open the door of the remote control.
○ Press ▤ in order to switch on the teletext.
▷ The contents appear on the screen together with two information lines at the top and an options line at the bottom.

When a selected teletext page contains several subpages, the subpage numbers which are automatically stored in the memory appear in the first information line. The coloured number indicates the displayed subpage. The white numbers refer to the subpages which can be selected with MENU - or +.

In the following information line appears:
. the name of the TV channel selected
. the page counter
. date and time.

○ Press ▤ again in order to switch off the teletext.
▷ The TV channel reappears.

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Easy Teletext system

The major advantages of this new teletext system are :

A considerable **reduced waiting time** by predicting what the user will probably select and which results in :

. a fast and direct selection of previous and following pages which are in transmission
. the precapturing of the pagenumbers read from the displayed page
. the direct selection of the last 2 page numbers selected with the digit keys
. the precapturing of the pages referred to in the options line
. the creation of a **habit watcher list** : not predictable pages, being selected by the user, are put in a list of preferred pages so that they are immediately available afterwards. The pages are stored in the memory when switching off teletext or when switching to standby.

The precapturing of up to **9 subpages** to be controlled by the teletext user.

Selecting a Teletext Page

With the digit keys ....Or

○ Enter the desired page number with the digit keys.
▷ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
▷ A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
○ Enter the correct page number.

With the options line ....

○ Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,
- the previous <= or the following => pages
- the previous selected pages
- another subject

Quickly run through the teletext pages

○ Press **P** - to run through the previous pages.
○ Press **P+** to run through the following pages.

Selecting the previous teletext page

○ Press the P◂P key.
▷ The previous selected teletext page is displayed again.

Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpage numbers appear in white as soon as the transmission has found them.
○ Press MENU - to select the previous subpage.
○ Press MENU + to select the following subpage.

Selecting the index teletext page

○ Press the white colour key ◉.
▷ The index, usually p. 100, appears.

Special teletext functions

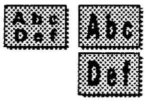
○ Open the door of the remote control.

Hold
You can stop the page counter from seeking when you have entered a wrong page number or when the page is not available.
○ Press ⇕.
▷ ≡⇕ appears in the first information line.
The page counter stops seeking the entered page number.
○ Enter another page number.
▷ ≡⇕ disappears.

Reveal
Some pages contain concealed information, such as solutions to riddles and puzzles.
○ Press ? to call up concealed information.
○ Press ? again in order to switch off the concealed information.

Interrupt
○ Press X.
▷ The TV programme appears.
▷ ▤ at the top of the screen indicates that you are still in the teletext mode.
Before interrupting teletext, you can select a page number.
When the page has been found, the page number appears on your screen.
○ Press X again.
▷ Teletext reappears.

Mix
○ Press ◪.
▷ The teletext page and the TV programme appear on the screen at the same time.
○ Press ◪ again.
▷ Only the teletext page is displayed.



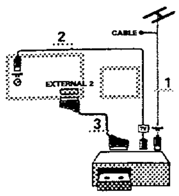
Enlarge
○ Press ✛ to enlarge the top half of the teletext page.
○ Press ✛ again to enlarge the bottom half of the teletext page.
○ Press once more to return to normal page size.

Subpage
By adding a subcode you can call up a desired subpage.
○ Enter the page number.
○ Press ▣.
○ Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
○ Press ▣ in order to cancel the subcode.

Subtitles and newsflashes
○ Select the contents page (usually page 100).
○ Select the page number for subtitles or newsflashes.
▷ Subtitles or newsflashes, if there are, appear at the bottom of the TV programme.

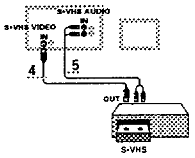
Peripheral Equipment

There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the right side of the TV.



TV and video recorder
○ Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.

S-VHS video recorder



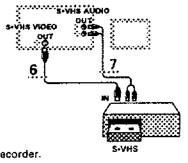
○ Do you have a S-VHS video recorder with S-VHS connectors, then connect as well as the aerial cables **1 and 2**

the S-VHS cables **4** and **5**

and the S-VHS cables **6** and **7**.

Do not connect an additional eurocable.

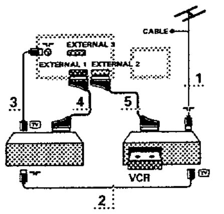
OR



○ Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables **1** and **2**, the S-VHS eurocable **3**.

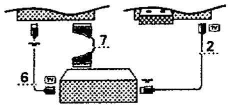
Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
The euroconnector has no function.

Searching for and storing the testsignal of the video recorder
○ Unplug the aerial cable of the aerial socket ⊤⊦ of your video recorder.
○ Switch on your TV and put the video recorder on the testsignal. (See the handbook for your video recorder.)
○ Press the INSTALL key at the right side of your TV, or enter the System Installation menu via the main menu.
▷ The SYSTEM INSTALLATION menu appears.
○ Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
Store the testsignal either under programme number 0 or between 50 and 99.
○ Insert the aerial plug again into the aerial socket ⊤⊦ of your video recorder after you have stored the testsignal.



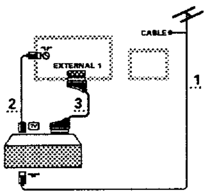
TV, video recorder 1 and one or more peripherals
○ Connect the aerial cables **1**, **2** and **3** as shown alongside. A better picture quality is obtained if you connect the eurocable **4** to EXTERNAL 1 or 3 and the eurocable **5** to EXTERNAL 2 additionally.

○ Look for the test signal of your peripheral in the same way as you do for a video recorder.



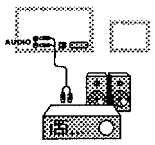
When having more peripherals, you can also connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.

Only with a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder.

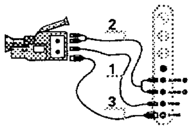


TV and laser disc or satellite tuner or Photo CD/CD-I equipment
○ Connect the aerial cables **1** and **2** as shown alongside.
A better picture quality is obtained if you connect the eurocable **3** additionally.
See also Installation, Photo CD/CD-I, if you connect a Photo CD/CD-I equipment.

Look for the test signal of your equipment in the same way as you do for a video recorder.



Audio equipment
You can listen to your TV sound via your audio equipment.
○ Therefore connect the audio cables to the audio input of your equipment and to AUDIO L and R at the back of your TV.
○ Press 🔇 on the remote control.
▷ The loudspeakers of your TV are switched off.

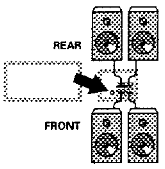


Camera and camcorder
○ Connect your camera or camcorder to FRONT at the right side of your TV.
○ Connect the equipment to VIDEO 1 and AUDIO L 2 for mono equipment.
○ In the SOUND menu select mono sound. See Main Menu, Adjusting the sound, Sound mode.
○ Connect also AUDIO R 2 for stereo equipment.
○ In the SOUND menu select stereo sound.
S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the S-VHS input 3 and AUDIO inputs 2.

Extra loudspeakers

To achieve a better sound effect you can connect 2 of 4 extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound.

○ Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the FRONT and REAR loudspeakers.



In case of 2 extra loudspeakers:

○ Connect them to FRONT .... **or**
○ Press the loudspeaker switch on the back of the TV out.
▷ The internal loudspeakers of your TV are now switched off.
▷ You achieve a better front sound effect.

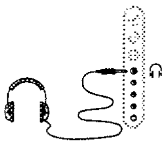
○ Connect them to REAR.
▷ You achieve a surround sound effect.
A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and 12 m wire can be purchased from your dealer.
Do never connect the loudspeakers from these kit to FRONT.

In case of 4 extra loudspeakers :

○ Connect them to FRONT and REAR.
○ Press the loudspeaker switch on the back of the TV out.
▷ The internal loudspeakers of your TV are now switched off.

Headphone

○ Insert the plug into the headphone socket 🎧 at the right side of the TV.
○ Press 🔇 on the remote control.
○ Adjust the volume with ◿ - or +.
▷ The internal loudspeakers of your TV are switched off.
The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

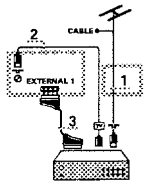


Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting a decoder with an aerial socket to the TV

○ Connect the aerial cables 1 and 2 as shown alongside.
When your decoder has a euroconnector you obtain a better picture quality if you connect a eurocable 3 additionally to EXTERNAL 1.



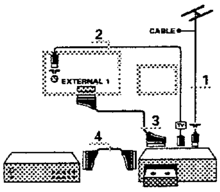
Connecting a decoder without an aerial socket to the TV

○ Connect the decoder with your TV with a eurocable 3 only.

Connecting the decoder to the video recorder

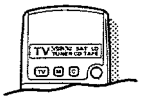
Some video recorders have a special euroconnector for decoder.

○ Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
See also the handbook of your video recorder.
○ To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.
Then press M on the remote control repeatedly until the designation **VCR1, VCR2, SAT, LD, TUNER, CD** or **TAPE** appears in a grey block, according to the equipment.
To operate your TV again, first press the **TV** key and enter the programme number of the TV channel you want to watch with the digit keys.

a. from equipment connected only with an **aerial cable**

○ Switch your TV on.
○ With the digit keys select the programme number under which you have stored the test signal.
○ Switch on your equipment.
▷ The picture and/or sound is reproduced.

Do you want to watch TV again ?

○ Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with a **eurocable**

○ Switch your TV on.
○ Switch your equipment on.
▷ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

○ Press C repeatedly until the designation EXT1, EXT2, EXT 3 or FRONT appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

○ Press C repeatedly again until the picture and/or the sound from the TV channels is reproduced.

c. from a S-VHS recorder connected with **S-VHS cables**

○ Switch your TV on.
○ Press C repeatedly until the indication EXT2 appears on the screen.
○ Switch your S-VHS recorder on.
▷ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **right side** of the TV

○ Switch your TV on.
○ Press C repeatedly until the indication FRONT appears on the screen.
○ Switch your equipment on.
▷ The picture is reproduced.
Do you want to watch the TV picture again ?
○ Enter the programme number of the TV channel which you want to watch with the digit keys.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial** cable

○ Select the programme number on your video recorder.
○ Set your video recorder to record.
(See the handbook for your video recorder.)

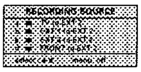
using a **eurocable** connected to the euroconnector EXTERNAL 2

○ Select the programme number on the TV.
○ Press MENU.
○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
▷ RECORDING SOURCE appears.
○ Press the red key a.
▷ TV TO EXT 2 is displayed.
○ Press off.
○ Set your video recorder to record.
(See the handbook for your video recorder.)

using a **eurocable** connected to the euroconnector EXTERNAL 1

○ Select the programme number on the TV.
○ Set your video recorder to record.
(See the handbook for your video recorder.)

2. Recording a programme from equipment connected to EXTERNAL 2, EXTERNAL 3 or FRONT



○ Switch on the equipment.
○ Press MENU.
○ Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
▷ RECORDING SOURCE appears.
○ With the colour keys select the connection from which you want to record.
▷ Your selection lights up.
○ Press **off**.
○ Set your video recorder to record.
(See the handbook for your video recorder.)

Tips

Poor Picture
Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers,non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation.
Are brightness and contrast out of adjustment ? Press the **PP** key.
Switch off your TV overnight with ⏻ on the left side of the TV.

No picture
Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ? Try it once more.
Did you press ⊜ again after switching on teletext ?
Has the child lock been switched off ? See Special Features.

Sound
Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound.

Remote control
Does your TV no longer respond to the remote control ? Check whether the indication **TV** appears in a grey block.
Perhaps the batteries are empty.

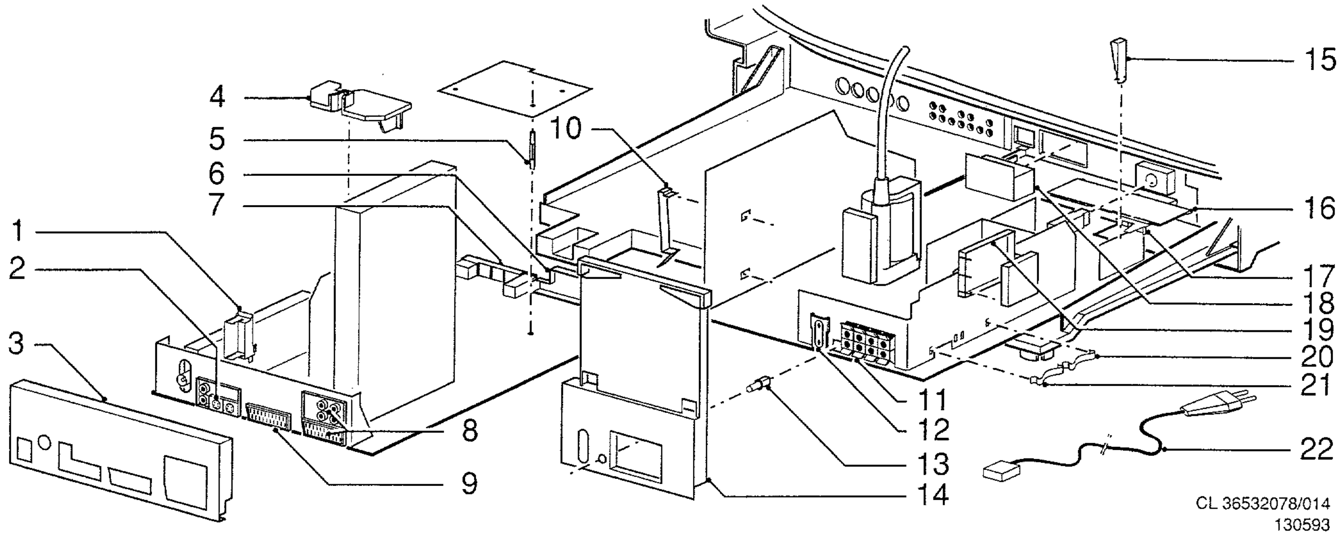
Menu
Did you select the wrong menu ? Once more press MENU or **off** to exit from the menu.

Connections
Check whether your peripheral equipment is in fact properly connected.
Have you switched on the peripheral equipment ?

No solution ?
Switch your TV set off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician when nothing helps.

Ohjeita laitteen käytöstä poistamiseksi
Laitteessa käytettyjä materiaaleja voidaan kierrättää ja käyttää uudelleen, jos purkamisen hoitaa tähän erikoistunut liike. Suosittelemme noudatettavaksi vanhojen laitteiden kierrätyksestä annettuja paikallisia ohjeita.

10. Exploded view & Mechanical parts list



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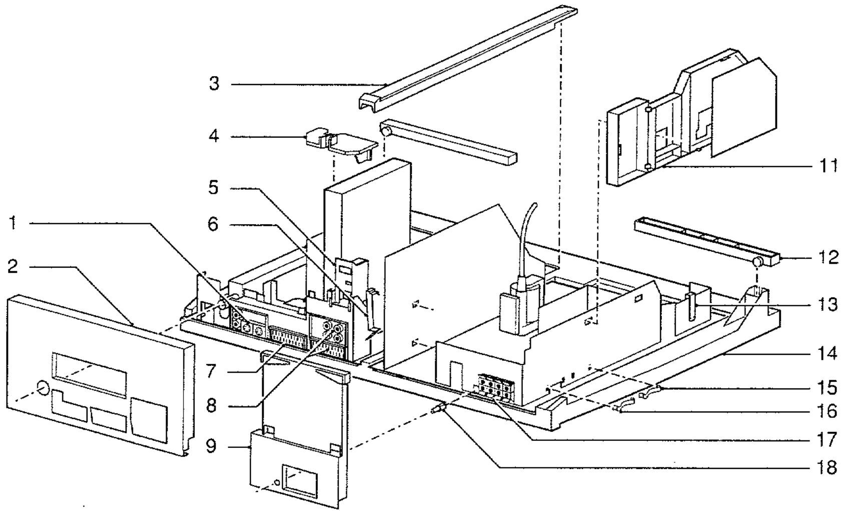
130593

Mechanical FL1

1	4822 256 91807	Holder for splitter
2	4822 267 41005	Cinch/2 x SVHS connector
2	4822 267 20409	Cinch/1 x SVHS connector
3	4822 432 93132	SSP cover
3	4822 432 92767	SSP cover -/39
3	4822 432 93138	SSP cover FL1.17
4	4822 404 31196	Bracket second tuner PIP
5	4822 404 31197	Spacer
6	4822 218 21084	Keyboard
7	4822 267 41004	Headph./cinch/SVHS connector
7	4822 267 20408	Headph./cinch
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 267 51058	Euroconnector
10	4822 492 70789	Spring
11	4822 290 60812	Connector for LS
12	4822 267 20417	Socket for LS
13	4822 410 25036	Mute knob
14	4822 432 92743	LSP cover Sq, CI
14	4822 432 92991	LSP cover FL1.17
15	4822 492 62067	Spring
16	4822 466 93027	Protection plate
17	4822 404 31167	Bracket for mains cord
18	4822 466 93002	LED block
18	4822 130 91183	LED block FL1.17
19	4822 404 31202	Bracket for DAF panel
20	4822 492 70143	Spring
21	4822 492 70788	Spring
22	4822 321 10736	Mains cord



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130593

Mechanical FL2/4.XX

	4822 267 41005	Cinch/2 x SVHS connector FL2
	4822 267 20409	Cinch/1 x SVHS connector FL4
	4822 466 93211	SSP cover FL2
	4822 466 93231	SSP cover FL4
	4822 417 50287	Bracket
	4822 404 31196	Bracket for second tuner PIP
	4822 256 91807	Holder for splitter
	4822 492 70789	Spring
	4822 267 51058	Euroconnector
	4822 267 20427	Euro/4 x cinch connector
	4822 267 20411	Euro/2 x cinch connector FL2
	4822 267 20457	Euro/2 x cinch connector FL4
	4822 432 92839	LSP cover FL2.24 CI, Ex
	4822 432 92695	LSP cover FL2.26 CI
	4822 432 92991	LSP cover FL4
1	4822 464 70616	Bracket for mains filter FL2.24
1	4822 464 70638	Bracket for mains filter FL2.26/FL4
2	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis FL2
14	4822 464 70639	Frame for chassis FL4
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS
18	4822 410 25036	Mute knob
	4822 404 31344	bracket 3th scart panel

Spare parts list / Stükliste / Liste des pièces

Large signal panel FLx.24 [A] [B] [G]

	4822 265 30525	2P male white
	4822 265 20541	2P male black
	4822 265 31099	6P female blue
	4822 267 51334	10P female blue
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40442	10P male
	4822 265 20509	2P male
	4822 267 41146	6P male black
	4822 267 40985	6P male eco
	4822 264 40207	3P male
	4822 267 41018	2P male red
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 31098	6P male blue
	4822 265 41367	10P male blue
▲	4822 265 30389	2P male
	4822 267 41142	3P male eco
	4822 267 30871	2P female
	4822 266 20163	2P female black

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic.P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
	4822 290 60812	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 310 31932	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 11105	Focus cable
	4822 320 20213	Vg2 cable
1010	4822 212 23892	NTSC ASSY
1026	4822 102 90038	DAF unit 32"

⊣⊢

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034▲	4822 122 32442	10nF 50V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 122 31765	100pF 2% 63V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2052	4822 124 42362	33µF 20% 16V
2053	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 32142	270pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80507	330µF 20%
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2330	4822 122 31784	4,7nF 10% 50V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402▲	4822 124 40246	4,7µF 20% 63V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	5322 122 31647	1nF 10% 63V
2408	4822 122 31172	180pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412▲	4822 122 31173	220pF 10% 500V
2413	4822 122 31768	180pF 2% 63V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	5322 122 31647	1nF 10% 63V
2452	4822 124 41716	220µF 20% 35V
2453	4822 122 33496	100nF 10% 63V
2455	4822 122 31746	1nF 2% 63V
2456	4822 124 80457	3300µF 20% 35V
2457	4822 124 42249	1µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 33496	100nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11823	270pF 10% 500V
2504	4822 126 13152	820pF 10% 3kV
2504	4822 126 13157	2,2nF 10% 3kV
2507	4822 121 42408	220nF 5% 63V
2509	4822 122 31174	2,7nF 10% 500V
2510	4822 126 12083	1nF 10% 500
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40248	10µF 20% 63V
2513	4822 124 40248	10µF 20% 63V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2521▲	4822 121 43397	680nF 5% 250V
2522▲	4822 121 43397	680nF 5% 250V
2523▲	4822 122 33382	9,1nF 5% 2kV
2523	4822 121 70435	10nF 5% 2kV
2524	4822 121 70005	15nF 5% 630V
2524	4822 121 70397	12nF 5% 630V
2525	4822 124 80604	47µF 20% 50V
2526	4822 126 11502	470pF 10% 500V
2527	4822 121 70005	15nF 5% 630V
2529	4822 124 23491	0,47µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 12761	1.5nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 12761	1.5nF 10% 500V
2537	4822 124 80037	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2544▲	4822 124 41525	100µF 20% 25V
2545	4822 126 12941	10pF 10% 100V
2546	4822 126 11725	1µF 20% 5V
2547	4822 122 32566	3,9nF 10% 63V
2548	4822 126 11725	1µF 20% 5V
2551	4822 124 40195	150µF 20% 16V
2600▲	4822 124 40246	4,7µF 20% 63V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2606	4822 122 32542	47nF 10% 63V
2606	4822 122 32541	27nF 10% 63V
2609	4822 121 51243	56nF 5% 50V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 80603	4,7µF 20% 50V
2612	4822 124 80603	4,7µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2615	4822 122 33498	2,7nF 10% 63V
2801	4822 122 32153	1,8nF 10% 63V
2805	4822 124 40248	10µF 20% 63V
2806	4822 122 31797	22nF 10% 63V

-□-

3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52299	7k5 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069	4822 051 10622	6k2 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 051 10223	22k 2% 0,25W
3074▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 053 21825	8M2 5% 0,5W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3235▲	4822 052 10108	1Ω 5% 0,33W
3238	4822 116 52268	300k 5% 0,5W
3238	4822 116 52234	100k 5% 0,5W
3239	4822 116 52268	300k 5% 0,5W
3239	4822 116 52234	100k 5% 0,5W
3240	4822 116 52268	300k 5% 0,5W
3240	4822 116 52234	100k 5% 0,5W
3241	4822 113 80635	3,3Ω 10% 5W
3242	4822 051 10122	1k2 2% 0,25W
3243	4822 116 52226	560Ω 5% 0,5W
3244	4822 051 10151	150Ω 2% 0,25W
3245	4822 116 52226	560Ω 5% 0,5W
3247	4822 051 52202	2k2 1% 0,125W
3248	4822 051 52202	2k2 1% 0,125W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52201	75Ω 5% 0,5W
3251	4822 051 10102	1k 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3255	4822 116 52243	1k5 5% 0,5W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10751	750Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3373	4822 051 10153	15k 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3387	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52265	270k 5% 0,5W
3410	4822 100 11731	150k 30% lin
3411	4822 051 10204	200k 2% 0,25W
3412	4822 116 52284	47k 5% 0,5W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 52264	27k 5% 0,5W
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10279	27Ω 5% 0,33W
3421	4822 051 10272	2k7 2% 0,25W
3422	4822 101 21195	470k 30% lin
3424	4822 051 10201	200Ω 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3428	4822 051 10333	33k 2% 0,25W
3429	4822 116 52205	1k1 5% 0,5W
3430	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52205	1k1 5% 0,5W
3439	4822 051 10754	750k 2% 0,25W
3440	4822 051 10163	16k 2% 0,25W
3441	4822 116 52293	6k2 5% 0,5W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10223	22k 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3448	4822 116 52233	10k 5% 0,5W
3450	4822 051 10562	5k6 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3453	4822 116 52211	150Ω 5% 0,5W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10154	150k 2% 0,25W

Spare parts list / Stükliste / Liste des pièces

Ω 5% 0,5W
1% 0,125W
1% 0,125W
k 5% 0,5W
5% 0,5W
% 0,25W
k 5% 0,5W
10%
5% 0,5W

Ω 2% 0,25W
Ω 2% 0,25W
10% 5W
5% 0,25W
5% 1W
Ω 1% 0,125W
2% 0,25W
Ω 5% 0,5W
5% 1W
2% 0,25W

2% 0,25W
2% 0,25W
Ω 5% 3W
2% 0,25W
5% 0,5W
Ω 2% 0,25W
Ω 2% 0,25W
5% 0,5W
Ω 5% 0,5W
2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
5% 0,5W
5% 0,5W
5% 0,5W
2% 0,25W
1% 0,6W
5% 0,5W
1% 0,6W

2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
5% 1W
2% 0,25W
0% lin
2% 0,25W
2% 0,25W

5% 0,5W
2% 0,25W
5% 0,5W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
30% lin
2% 0,25W
2% 0,25W
5% 0,5W
30% lin
2% 0,25W
5% 0,5W

2% 0,25W
30% lin
5% 0,5W
5% 0,5W
2% 0,25W
5% 0,33W
2% 0,25W
30% lin
2% 0,25W
2% 0,25W

% 0,25W
% 0,5W
5% 0,5W
% 0,5W
2% 0,25W
% 0,25W
% 0,5W
% 0,25W
% 0,25W
% 0,25W

% 0,5W
% 0,25W
% 0,25W
5% 0,33W
5% 0,5W
2% 0,25W
2% 0,25W

3457	4822 051 10912	9k1 2% 0,25W
3458▲	4822 116 80676	1Ω5 5% 0,5W
3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 11331	330Ω 5% 2W
3460▲	4822 053 11271	270Ω 5% 2W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3464▲	4822 053 10102	1k 5% 1W
3465	4822 051 10681	680Ω 2% 0,25W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12331	330Ω 5% 3W
3473	4822 051 10152	1k5 2% 0,25W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3484	4822 051 10224	220k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 116 52274	36k 5% 0,5W
3502	4822 116 52306	9k1 5% 0,5W
3503	4822 116 52306	9k1 5% 0,5W
3504	4822 116 52176	10Ω 5% 0,5W
3505	4822 116 52229	750Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3507	4822 116 52184	18Ω 5% 0,5W
3508▲	4822 116 60523	2k2
3508	4822 116 82773	1k8 10% 5W
3509	4822 053 20104	100k 5% 0,25W
3511▲	4822 052 10128	1Ω2 5% 0,33W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3520▲	4822 052 11102	1k 5% 0,5W
3521▲	4822 052 11102	1k 5% 0,5W
3522	4822 117 10285	6,8Ω 5% 3W
3523	4822 116 52244	15k 5% 0,5W
3524	4822 116 52176	10Ω 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3529	4822 051 10204	200k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52274	36k 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 10128	1Ω2 5% 0,33W
3535▲	4822 052 10128	1Ω2 5% 0,33W
3536▲	4822 053 10331	330Ω 5% 1W
3538	4822 050 21303	13k 1% 0,6W
3539▲	4822 052 10108	1Ω 5% 0,33W
3540	4822 116 52267	30k 5% 0,5W
3541▲	4822 116 52272	330k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 20222	2k2 5% 0,1W
3543	4822 051 10332	3k3 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3546	4822 051 10104	100k 2% 0,25W
3547	4822 051 10109	10Ω 2% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10132	1k3 2% 0,25W
3551	4822 051 10151	150Ω 2% 0,25W
3552	4822 116 52207	1k2 5% 0,5W
3553	4822 116 52207	1k2 5% 0,5W
3555	4822 113 80592	150Ω 10% 5W
3556	4822 053 11108	1Ω 5% 2W
3558	4822 051 10109	10Ω 2% 0,25W
3559	4822 051 10392	3k9 2% 0,25W
3560	4822 113 80586	6Ω8 10% 5W
3561	4822 051 58201	820Ω 1% 0,125W
3562	4822 051 52202	2k2 1% 0,125W
3563	4822 116 52175	100Ω 5% 0,5W
3564	4822 051 10569	56Ω 2% 0,25W
3570	4822 051 10272	2k7 2% 0,25W
3573	4822 116 52244	15k 5% 0,5W
3601	4822 051 10104	100k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3603	4822 051 10163	16k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3604	4822 051 10514	510k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3606	4822 051 20183	18k 5% 0,1W
3607	4822 100 11213	22k 30%lin 0,1W
3608▲	4822 051 10103	10k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611▲	4822 116 52256	2k2 5% 0,5W
3612	4822 116 52233	10k 5% 0,5W
3613	4822 051 10202	2k 2% 0,25W
3614	4822 116 52249	1k8 5% 0,5W

3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10682	6k8 2% 0,25W
3621	4822 051 10114	110k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3626	4822 130 40938	BC548
3627	4822 051 10202	2k 2% 0,25W
3628	4822 051 10473	47k 2% 0,25W
3629	4822 051 10474	470k 2% 0,25W
3630▲	4822 051 10103	10k 2% 0,25W
3631	4822 116 52297	68k 5% 0,5W
3632	4822 051 10134	130k 2% 0,25W
3633	4822 051 10271	270Ω 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3653	4822 051 20183	18k 5% 0,1W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
3800	4822 116 52289	5k6 5% 0,5W
3801	4822 051 10184	180k 2% 0,25W
3802	4822 051 10104	100k 2% 0,25W
3803	4822 051 20222	2k2 5% 0,1W
3804▲	4822 051 10103	10k 2% 0,25W
3805▲	4822 111 41424	22Ω 5% 0,3W
3806	4822 051 20222	2k2 5% 0,1W
3807▲	4822 116 52256	2k2 5% 0,5W
3809	4822 051 10104	100k 2% 0,25W
3810	4822 116 52176	10Ω 5% 0,5W
3811▲	4822 116 52215	220Ω 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W
9459▲	4822 116 52215	220Ω 5% 0,5W
9625	4822 053 20106	10M 5% 0,25W

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5230▲	4822 148 81192	SOPS transf.
5237	4822 526 10494	Ferrite bead
5241	4822 157 62412	27μH 10%
5255▲	4822 148 81225	μSOPS transf.
5260	4822 526 10494	Ferrite bead
5308	4822 157 70001	180μH 10%
5310	4822 157 63301	1μH 15%
5381▲	4822 157 52265	100μH 10%
5503▲	4822 157 63252	Line driver
5505	4822 157 51588	0,82μH 20%
5506	4822 157 51588	0,82μH 20%
5507	4822 157 63506	0,09μH
5510	4822 157 62886	33μH 10%
5511	4822 157 52407	39μH 7,5%
5520	4822 157 63846	linearity corr. 28"
5520▲	4822 156 50091	linearity corr. 32"
5521	4822 157 70871	Bridge coil 28"
5521	4822 157 70869	Bridge coil 32"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27μH 10%
5526▲	4822 157 63513	E/W coil
5527	4822 157 70472	0,56μH 20%
5534	4822 158 10551	27μH 7,5%
5543	4822 157 62412	27μH 10%
5555	4822 140 10476	L.O.T. 28"
5555▲	4822 140 10432	L.O.T. 32"

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6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 81104	MA689
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6246	4822 130 83576	BZV55-B6V8

6251	4822 130 81512	BZV55-C6V2
6260	4822 130 80446	BAS32L
6262	4822 130 83121	BYD73C
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	5322 130 34898	BZD23-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 82345	LLZ-C22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6422	4822 130 80446	LL4148
6440▲	4822 130 30621	1N4148
6441	4822 130 80446	LL4148
6451▲	4822 130 61219	BZX79-C10
6452	4822 130 42488	BYD33D
6480	4822 130 31554	BZX79-C4V3
6506▲	5322 130 32184	BYV27-50
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6534	4822 130 82512	BYV29F-400
6536	4822 130 82758	BYV29F-300
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 83004	BZX79-A3V9
6570	4822 130 80922	LLZ-C18
6611	4822 130 81027	LLZ-C11
6633	4822 130 81512	LLZ-C6V2
6650	4822 130 82583	LLZ-C9V1
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148
6651	4822 130 80446	LL4148
6801	4822 130 80446	LL4148
6802	5322 130 34337	BAV99
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148
6811	4822 130 34281	BZX79-B15

⊗ ▭

7000	4822 209 73311	TDA1521Q/N4
7000	4822 130 63427	BD534FI
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63366	ON4802
7242	4822 130 40948	BC548A
7243	4822 130 40948	BC548A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 63426	BD533FI
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40

7320▲	4822 130 82034	CNX83A
7360	4822 130 42513	BC858C
7369	5322 130 42755	BC847C
7370	5322 130 42136	BC848C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7417	4822 130 42513	BC858C
7443	4822 130 61207	BC848
7444	4822 130 61207	BC848
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858A
7469	4822 130 44283	BC636
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7506	4822 130 62843	2SC4288A
7512▲	4822 130 41344	BC337-40
7513	4822 130 41327	BC327-40
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 130 62846	ON4590
7552	4822 130 62846	ON4590
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
7616	5322 130 42136	BC848C
7618	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7800	5322 209 10576	4053B
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848

Large signal panel FLx.26/.27 [A] [B] [G]

	4822 266 30359	6P female
	4822 265 41328	10P female
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 264 40207	3P male
	4822 267 41142	3P
	4822 267 41146	6P
	4822 267 41018	2P red
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 265 30953	6P male
	4822 265 41326	10P male
	4822 265 30984	5P female

Various

	4822 466 93029	Insulation plate
	5322 390 20011	Vet silic P4 20GR
	4822 492 70143	Spring 10X33mm
	4822 492 62076	Spring fix trans.
	4822 492 70788	Spring fix IC
	4822 492 70789	Spring fix trans.
▲	4822 276 12998	Mains switch
▲	4822 256 30496	Fuse holder
	4822 290 61196	Socket for ext. loudsp.
	4822 276 13094	Switch loudsp. ON/OFF
	4822 267 20417	Socket for squeeters
	4822 310 31993	SOPS repair kit
	4822 320 20162	EHT cable
	4822 320 20191	Focus cable
1010	4822 212 30195	NTSC panel
1200▲	4822 070 33151	Fuse 3,15A

⊣⊢

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V

Spare parts list / Stükliste / Liste des pièces

2004	4822 122 32142	270pF 2% 63V
2005	4822 122 32142	270pF 2% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF 20% 50V
2013	4822 122 32927	220nF 20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF 20% 100V
2020	4822 126 12816	10nF 20% 100V
2021	4822 126 12816	10nF 20% 100V
2022	4822 126 11966	100pF 10% 500V
2022	4822 126 12816	10nF 20% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2028	4822 122 32927	220nF 20% 50V
2029	4822 122 32927	220nF 20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034	4822 122 32862	10nF 80% 50V
2035	4822 122 31775	680pF 2% 63V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 051 10008	0Ω 5% 0,25W
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2041	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 32927	220nF 20% 50V
2049	4822 051 10008	0Ω 5% 0,25W
2049	4822 122 31965	220pF 2% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051▲	4822 124 40433	47µF 20% 25V
2052▲	4822 124 40433	47µF 20% 25V
2053▲	4822 124 40433	47µF 20% 25V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 31773	560pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2075	4822 122 31797	22nF 10% 63V
2076	4822 122 31797	22nF 10% 63V
2077	4822 122 31797	22nF 10% 63V
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
2210▲	4822 126 11141	2,2nF 10% 1kV
2211▲	4822 126 11141	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2230	4822 122 32856	8,2nF 10% 63V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 80215	1000µF 20% 35V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2241	5322 124 41431	22µF 20% 35V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2256	5322 122 31647	1nF 10% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 126 12876	15pF 10% 100V
2261	4822 124 40255	100µF 20% 63V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80605	330µF 20% 50V
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	5322 124 41378	33µF 20% 35V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2401	4822 122 32542	47nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404▲	4822 124 40246	4,7µF 20% 63V
2405	4822 122 31759	18nF
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	4822 122 32153	1,8nF 10% 63V
2408	4822 126 11823	270pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412	4822 126 11966	100pF 10% 500V
2415	4822 122 32542	47nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2450▲	4822 122 32442	10nF 50V
2451	4822 122 31746	1nF 2% 63V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31746	1nF 2% 63V
2455	4822 122 31771	390pF 2% 63V
2456	4822 124 41184	470µF 20% 50V
2456	4822 124 41747	680µF 20% 35V
2456	5322 124 41468	1000µF 20% 40V
2457	4822 124 42249	1µF 10% 50V
2457	4822 124 42251	1,5µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 80214	22µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11157	470pF 10% 500V
2504	4822 122 20054	270pF 10% 2kV
2504▲	4822 126 12239	560pF 10% 2kV
2505	4822 122 20054	270pF 10% 2kV
2505▲	4822 126 11254	330pF 10% 2kV
2505▲	4822 126 12269	680pF 10% 2kV
2507	4822 121 42408	220nF 5% 63V
2509▲	4822 126 12273	1200pF 10% 2kV
2511	4822 121 43368	47µF 160V
2512	4822 124 41596	22µF 20% 50V
2513	4822 124 41596	22µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 80341	1µF 20% 160V
2520▲	4822 121 51527	390nF 5% 250V
2520▲	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2523	4822 121 70398	11nF 5% 2kV
2523	4822 121 70415	8,2nF 5% 1,6kV
2524	4822 121 43915	27nF 5% 630V
2524	4822 121 70005	15nF 5% 630V
2525▲	4822 121 43397	680nF 5% 250V
2528	4822 121 70397	12nF 5% 630V
2529	4822 124 22467	2,2µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11502	470pF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 11501	1,5nF 10% 500V
2537	4822 124 40201	1000µF 20% 16V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2545	4822 122 31175	1nF 10% 500V
2546	4822 122 33496	100nF 10% 63V
2547	4822 122 33498	2,7nF 10% 63V
2552	4822 122 33496	100nF 10% 63V
2553	4822 122 33496	100nF 10% 63V
2554▲	4822 124 41525	100µF 20% 25V
2555	4822 122 32891	68nF 10% 63V
2556	4822 124 41584	100µF 20% 10V
2600▲	4822 124 40246	4,7µF 20% 63V
2601	4822 122 31797	22nF 10% 63V
2603	4822 122 32891	68nF 10% 63V
2603	4822 122 32927	220nF 20% 50V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31644	2,2nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2605	4822 122 33498	2,7nF 10% 63V
2606	4822 122 33496	100nF 10% 63V
2609	4822 121 43396	120nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 41576	2,2µF 20% 50V
2613	4822 122 31784	4,7nF 10% 50V
2626	4822 122 32566	3,9nF 10% 63V

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3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10153	15k 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3015▲	4822 052 10828	8Ω2 5% 0,33W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3019▲	4822 052 10828	8Ω2 5% 0,33W
3020▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10132	1k3 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3043	4822 051 10203	20k 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3060	4822 051 10203	20k 2% 0,25W
3061	4822 051 10201	200Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069▲	4822 051 10472	4k7 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 053 21475	4M7 5% 0,5W
3202▲	4822 053 21825	8M2 5% 0,5W
3203	4822 111 41573	470Ω 10% 0,5W
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W
3210	4822 116 52239	120k 5% 0,5W
3211	4822 116 52239	120k 5% 0,5W
3212	4822 116 52234	100k 5% 0,5W
3213	4822 051 10823	82k 2% 0,25W
3216▲	4822 115 90309	56Ω 10% 5W
3230▲	4822 052 10108	1Ω 5% 0,33W
3234	4822 100 11348	1k 30% lin
3236	4822 051 10681	680Ω 2% 0,25W
3237	4822 051 10101	100Ω 2% 0,25W
3239	4822 116 52297	68k 5% 0,5W
3240	4822 116 52297	68k 5% 0,5W
3241	4822 113 80602	5,6Ω 10% 5W
3243▲	4822 053 10221	220Ω 5% 1W
3247	4822 051 10122	1k2 2% 0,25W
3248	4822 051 10562	5k6 2% 0,25W
3249	4822 116 52258	220k 5% 0,5W
3250	4822 116 52195	47Ω 5% 0,5W
3251	4822 051 10471	470Ω 2% 0,25W
3252	4822 116 52258	220k 5% 0,5W
3253	4822 116 82738	10k 10%
3254▲	4822 051 10472	4k7 2% 0,25W
3255	4822 116 52243	1k5 5% 0,5W
3256	4822 051 10471	470Ω 2% 0,25W
3257	4822 051 10152	1k5 2% 0,25W
3266	4822 051 10151	150Ω 2% 0,25W
3267	4822 051 10101	100Ω 2% 0,25W
3268	4822 115 10129	27Ω 10% 5W
3270	4822 051 10108	1Ω 5% 0,25W
3271	4822 053 10399	39Ω 5% 1W
3272	4822 051 51201	120Ω 1% 0,125W
3273▲	4822 051 10472	4k7 2% 0,25W
3275	4822 116 52206	120Ω 5% 0,5W
3300	4822 053 10753	75k 5% 1W
3304	4822 051 10473	47k 2% 0,25W
3305	4822 051 10113	11k 2% 0,25W
3306	4822 051 10823	82k 2% 0,25W
3308	4822 053 12151	150Ω 5% 3W
3309▲	4822 051 10103	10k 2% 0,25W
3310	4822 116 52184	18Ω 5% 0,5W
3311	4822 051 10471	470Ω 2% 0,25W
3312	4822 051 10101	100Ω 2% 0,25W
3313	4822 116 52184	18Ω 5% 0,5W
3314	4822 116 52175	100Ω 5% 0,5W
3317	4822 051 10682	6k8 2% 0,25W
3320	4822 051 10471	470Ω 2% 0,25W
3321	4822 051 10471	470Ω 2% 0,25W
3322	4822 051 10471	470Ω 2% 0,25W
3331	4822 116 52267	30k 5% 0,5W
3332	4822 116 52233	10k 5% 0,5W
3351▲	4822 052 11279	27Ω 5% 0,5W
3356	4822 051 10681	680Ω 2% 0,25W
3357	4822 050 21542	1k54 1% 0,6W
3358	4822 116 52183	16Ω 5% 0,5W
3359	4822 050 21602	1k6 1% 0,6W
3360	4822 051 10122	1k2 2% 0,25W
3362	4822 051 10151	150Ω 2% 0,25W
3364	4822 051 10471	470Ω 2% 0,25W
3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368▲	4822 053 10271	270Ω 5% 1W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382▲	4822 051 10103	10k 2% 0,25W
3383▲	4822 051 10103	10k 2% 0,25W
3385	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3404	4822 051 10332	3k3 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52292	560k 5% 0,5W
3410	4822 100 11213	22k 30% lin
3411	4822 051 10104	100k 2% 0,25W
3411	4822 051 10124	120k 2% 0,25W
3411	4822 051 10753	75k 2% 0,25W
3413	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 81223	1M2 5%
3417▲	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419▲	4822 052 10229	22Ω 5% 0,33W
3420	4822 050 23905	3M9 1% 0,6W
3420	4822 116 52305	820k 5% 0,5W
3421	4822 116 52263	2k7 5% 0,5W
3422	4822 116 81223	1M2 5%
3422	4822 116 81783	1M5 5% 0,5W
3422	4822 116 83029	1M3 5% 0,5W
3423	4822 116 52235	1M 5% 0,5W
3423	4822 116 52305	820k 5% 0,5W
3423	4822 117 10612	1M1 5%
3424	4822 051 10221	220Ω 2% 0,25W
3425	4822 051 10124	120k 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3427	4822 051 10474	470k 2% 0,25W
3428	4822 116 52271	33k 5% 0,5W
3429	4822 050 11002	1k 1% 0,4W
3430▲	4822 051 10103	10k 2% 0,25W
3431	4822 116 52271	33k 5% 0,5W
3437	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52247	16k 5% 0,5W
3440	4822 051 20222	2k2 5% 0,1W
3441	4822 051 10622	6k2 2% 0,25W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10112	1k1 2% 0,25W
3444▲	4822 051 10103	10k 2% 0,25W
3445	4822 051 10223	22k 2% 0,25W
3446	4822 051 10273	27k 2% 0,25W
3450	4822 051 10432	4k3 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10124	120k 2% 0,25W
3456	4822 051 10134	130k 2% 0,25W
3456	4822 051 51204	120k 1% 0,125W
3457	4822 051 10822	8k2 2% 0,25W
3457	4822 051 10912	9k1 2% 0,25W
3457	4822 051 58202	8k2 1% 0,125W
3458▲	4822 116 80676	1Ω5 5% 0,5W
3459▲	4822 116 8	
3460▲	4822 053 1	
3461	4822 116 8	
3462	4822 116 8	
3463	4822 116 8	
3465	4822 051 1	
3466	4822 116 5	
3466	4822 116 5	
3466	4822 116 5	
3467	4822 100 2	
3468	4822 053 1	
3469	4822 050 1	
3469	4822 116 5	
3469	4822 116 5	
3471	4822 051 1	
3471	4822 051 2	
3473	4822 116 5	
3479	4822 051 1	
3480	4822 116 5	
3481	4822 051 1	
3482	4822 051 1	
3483	4822 051 1	
3484	4822 051 1	
3485	4822 051 1	
3495▲	4822 053 1	
3500	4822 116	
3501	4822 051 1	
3502	4822 116	
3503	4822 116	
3504	4822 053	
3504	4822 053	
3505	4822 116	
3505	4822 116	
3506	4822 053	
3506	4822 053	
3507	4822 116	
3507	4822 116	
3508	4822 116	
3508	4822 116	
3509	4822 053	
3510	4822 113	
3512	4822 051	
3513	4822 100	
3514	4822 116	
3515▲	4822 052	
3516▲	4822 052	
3517▲	4822 052	
3518	4822 116	
3519	4822 116	
3520▲	4822 052	
3521▲	4822 052	
3522▲	4822 052	
3524	4822 116	
3525	4822 116	
3526	4822 053	
3527	4822 051	
3528	4822 050	
3528	4822 116	
3528	4822 116	
3528	4822 116	
3529	4822 051	
3530	4822 051	
3531	4822 116	
3532▲	4822 050	
3533▲	4822 050	
3534▲	4822 052	
3535▲	4822 052	
3536	4822 116	
3537	4822 116	
3538	4822 050	
3538	4822 050	
3540	4822 116	
3541	4822 116	
3542	4822 051	
3543	4822 051	
3544	4822 051	
3545	4822 116	
3547	4822 051	
3548	4822 051	
3549	4822 051	
3550	4822 05	
3553▲	4822 05	
3554	4822 05	
3555	4822 05	
3556	4822 05	
3557	4822 05	
3558	4822 10	
3559	4822 05	
3560▲	4822 05	
3561	4822 05	
3562	4822 05	
3563	4822 05	
3600▲	4822 05	
3600	4822 05	
3600	4822 05	
3601	4822 05	

% 0,25W
5% 3W
% 0,25W
5% 0,5W
2% 0,25W
2% 0,25W
5% 0,5W
5% 0,5W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
% 0,5W
5% 0,5W
2% 0,25W
1% 0,6W
5% 0,5W
% 0,6W
% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
5% 1W
% 0,25W
% lin
2% 0,25W
% 0,5W
% 0,25W
5% 0,5W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
2% 0,25W
% 0,25W
% 0,25W
% 0,25W
0% lin
2% 0,25W
% 0,25W
5% 0,5W
0% lin
2% 0,25W
2% 0,25W
% 0,25W
2% 0,25W
2% 0,25W
0% lin
5%
% 0,5W
2% 0,25W
5% 0,33W
1% 0,6W
5% 0,5W
% 0,5W
5%
5% 0,5W
5% 0,5W
% 0,5W
5% 0,5W
5%
2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
% 0,5W
0,4W
% 0,25W
% 0,5W
5% 0,5W
5% 0,5W
% 0,5W
% 0,1W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 0,25W
5% 0,33W
2% 0,25W
2% 0,25W
2% 0,25W
1% 0,125W
% 0,25W
% 0,25W
% 0,125W
% 0,5W

3459▲	4822 116 80676	1Ω5 5% 0,5W
3460▲	4822 053 10271	270Ω 5% 1W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3463	4822 116 80176	1Ω 5% 0,5W
3465	4822 051 10681	680Ω 2% 0,25W
3466	4822 116 52243	1k5 5% 0,5W
3466	4822 116 52279	4k3 5% 0,5W
3466	4822 116 52286	5k1 5% 0,5W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12221	220Ω 5% 3W
3469	4822 050 11002	1k 1% 0,4W
3469	4822 116 52279	4k3 5% 0,5W
3469	4822 116 52286	5k1 5% 0,5W
3471	4822 051 10182	1k8 2% 0,25W
3471	4822 051 20222	2k2 5% 0,1W
3473	4822 116 52253	2k 5% 0,5W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3483	4822 051 10563	56k 2% 0,25W
3484	4822 051 10223	22k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3495▲	4822 053 11271	270Ω 5% 2W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 051 10392	3k9 2% 0,25W
3502	4822 116 52299	7k5 5% 0,5W
3503	4822 116 52299	7k5 5% 0,5W
3504	4822 053 11108	1Ω 5% 2W
3504	4822 053 11128	1Ω2 5% 2W
3505	4822 116 52191	33Ω 5% 0,5W
3505	4822 116 52195	47Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3506	4822 053 11128	1Ω2 5% 2W
3507	4822 116 52191	33Ω 5% 0,5W
3507	4822 116 52195	47Ω 5% 0,5W
3508	4822 116 82773	1k8 10% 5W
3508	4822 116 83003	1k5 10% 5W
3509	4822 053 21154	150k 5% 0,5W
3510	4822 113 80592	150Ω 10% 5W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3514	4822 116 52189	30Ω 5% 0,5W
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3518	4822 116 52267	30k 5% 0,5W
3519	4822 116 52267	30k 5% 0,5W
3520▲	4822 052 11471	470Ω 5% 0,5W
3521▲	4822 052 11471	470Ω 5% 0,5W
3522▲	4822 052 11102	1k 5% 0,5W
3524	4822 116 81753	4Ω7 5% 0,5W
3525	4822 116 52207	1k2 5% 0,5W
3526	4822 053 10688	6Ω8 5% 1W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52207	1k2 5% 0,5W
3528	4822 116 52229	750Ω 5% 0,5W
3528	4822 116 52243	1k5 5% 0,5W
3529	4822 051 10104	100k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3531	4822 116 52191	33Ω 5% 0,5W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 11278	2Ω7 5% 0,5W
3535▲	4822 052 11278	2Ω7 5% 0,5W
3536	4822 116 52221	360Ω 5% 0,5W
3537	4822 116 52189	30Ω 5% 0,5W
3538	4822 050 21203	12k 1% 0,6W
3538	4822 050 21303	13k 1% 0,6W
3540	4822 116 52267	30k 5% 0,5W
3541	4822 116 52285	470k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 10152	1k5 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3547	4822 051 10518	5Ω1 5% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10102	1k 2% 0,25W
3553▲	4822 053 11479	47Ω 5% 2W
3554	4822 051 10008	0Ω 5% 0,25W
3555	4822 051 10681	680Ω 2% 0,25W
3556	4822 051 10008	0Ω 5% 0,25W
3557	4822 051 10182	1k8 2% 0,25W
3558	4822 100 11348	1k 30% lin
3559	4822 051 10182	1k8 2% 0,25W
3560▲	4822 052 10108	1Ω 5% 0,33W
3561	4822 051 10152	1k5 2% 0,25W
3562	4822 051 51102	1k1 1% 0,125W
3563	4822 051 10122	1k2 2% 0,25W
3600▲	4822 051 10472	4k7 2% 0,25W
3600	4822 051 10682	6k8 2% 0,25W
3600	4822 051 10752	7k5 2% 0,25W
3601	4822 051 10104	100k 2% 0,25W

3601	4822 051 10154	150k 2% 0,25W
3602	4822 100 11213	22k 30% lin
3602	4822 100 20166	10k 30% lin
3603▲	4822 051 10103	10k 2% 0,25W
3603	4822 051 10123	12k 2% 0,25W
3603	4822 051 10153	15k 2% 0,25W
3603	4822 051 10203	20k 2% 0,25W
3603	4822 051 10622	6k2 2% 0,25W
3604	4822 051 10104	100k 2% 0,25W
3604	4822 051 10134	130k 2% 0,25W
3604	4822 051 10184	180k 2% 0,25W
3605▲	4822 051 10103	10k 2% 0,25W
3605	4822 051 10133	13k 2% 0,25W
3605	4822 051 10243	24k 2% 0,25W
3606	4822 051 10153	15k 2% 0,25W
3606	4822 051 10223	22k 2% 0,25W
3606	4822 051 10333	33k 2% 0,25W
3607	4822 100 11213	22k 30% lin
3608	4822 051 10102	1k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610▲	4822 051 10472	4k7 2% 0,25W
3611	4822 051 20222	2k2 5% 0,1W
3614	4822 116 52243	1k5 5% 0,5W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10683	68k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10622	6k2 2% 0,25W
3621	4822 051 10164	160k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3623	4822 116 80176	1Ω 5% 0,5W
3624	4822 116 52184	18Ω 5% 0,5W
3625	4822 116 52184	18Ω 5% 0,5W
3626	4822 116 52267	30k 5% 0,5W
3627▲	4822 051 10103	10k 2% 0,25W
3628	4822 116 52284	47k 5% 0,5W
3629	4822 051 10224	220k 2% 0,25W
3630	4822 051 10104	100k 2% 0,25W
3631	4822 051 10182	1k8 2% 0,25W
3632	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10153	15k 2% 0,25W
3633	4822 051 10204	200k 2% 0,25W
3633	4822 051 10244	240k 2% 0,25W
3633	4822 051 10683	68k 2% 0,25W
3634	4822 051 10473	47k 2% 0,25W
3650	4822 051 20183	18k 5% 0,1W
3651	4822 051 10102	1k 2% 0,25W
3652	4822 051 10822	8k2 2% 0,25W
3653	4822 051 10104	100k 2% 0,25W
3654	4822 051 20222	2k2 5% 0,1W
3655	4822 051 20222	2k2 5% 0,1W
3656▲	4822 051 10103	10k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W
9406▲	4822 116 52283	4K7 5% 0,5W
9406	4822 116 52296	6K8 5% 0,5W
9459▲	4822 116 52215	220E 5% 0,5W

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5204▲	4822 157 10291	Mainsfilter CU28D5
5230▲	4822 148 81192	SOPS transf.
5231	4822 526 10494	Ferrite bead
5233	4822 526 10494	Ferrite bead
5235	4822 526 10494	Ferrite bead
5237	4822 526 10494	Ferrite bead
5241	4822 157 63696	18µH 10%
5255▲	4822 148 81225	µSOPS transf.
5260	4822 526 10494	Ferrite bead
5262	4822 526 10494	Ferrite bead
5308	4822 157 70001	180µH 10%
5310	4822 157 63301	1µH 15%
5381▲	4822 157 52265	100µH 10%
5503▲	4822 157 63252	Line driver
5504	4822 157 51588	0,82µH 20%
5506	4822 157 51588	0,82µH 20%
5510	4822 157 62412	27µH 10%
5511	4822 157 52407	39µH 7,5%
5514▲	4822 157 70006	DC-shift
5520	4822 156 50107	Linearity corr.
5520	4822 156 50112	Linearity corr. 29"
5521	4822 157 63255	Bridge coil
5521	4822 157 90255	Bridge coil 29"
5524	4822 526 10494	Ferrite bead
5525	4822 157 52392	27µH 10%
5526	4822 157 63253	Choke
5527	4822 157 71097	0,56µH 20%
5534	4822 157 53066	15µH 10%
5543	4822 157 62412	27µH 10%
5548	4822 157 63506	0,09µH
5555▲	4822 140 10443	L.O.T.
5555▲	4822 140 10479	L.O.T. 29"

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6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6017	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
6235	4822 130 80982	BYW29F-100
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6247	4822 130 83086	LL4150
6251	4822 130 80954	LLZ-C5V6
6254	4822 130 80883	LLZ-C4V7
6255	4822 130 80446	LL4148
6260	4822 130 80446	BAS32L
6262	4822 130 82353	BYD34G
6266	4822 130 34278	BZX79-F6V8
6272▲	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	4822 130 32904	BZV85-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 80886	LLZ-F22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 81143	LLZ-C20
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6405	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6440	4822 130 80446	LL4148
6441	4822 130 80446	LL4148
6451	5322 130 34834	BZX79-C3V6
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6504	4822 130 42488	BYD33D
6506	4822 130 42488	BYD33D
6507	4822 130 83086	LL4150
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6535	4822 130 82512	BYV29F-400
6536	4822 130 80982	BYW29F-100
6538	4822 130 80954	LLZ-C5V6
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 80954	LLZ-C5V6
6552	4822 130 80922	LLZ-C18
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148

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7000	4822 130 63427	BD534FI
7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63239	ON4827
7242	5322 130 44349	BC635
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7256	5322 130 42012	BC858
7268	4822 130 63558	BD533
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	5322 130 42756	BC857C
7369	5322 130 42755	BC847C
7370	5322 130 42755	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7444	5322 130 42136	BC848C
7445	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44104	BC328
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7504	4822 130 62934	2xON4673
7506	4822 130 62843	2SC4288A
7506	4822 130 62934	2xON4673
7512	4822 130 41109	BD135-16
7513	4822 130 41194	BD136-16
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63427	BD534FI
7551	4822 209 70672	LM358N
7552	5322 130 44349	BC635
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 63508	BD536FI
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C

Small signal panel
[C] [D] [F] [H]

4822 255 40901	IC socket 40P
4822 267 41147	7P grey
4822 290 40295	7P male grey
4822 267 41095	5P male
4822 265 41326	10P male hor.
4822 264 40207	3P male
4822 267 51242	10P male vert.
4822 265 31009	3P pinstrip
4822 265 20512	2P green
4822 290 61116	9P pistrip
4822 265 40442	10P male
4822 267 40666	3P male vert.
4822 267 41143	3P male
4822 265 41335	11P
4822 267 41144	3P
4822 265 20509	2P grey
4822 265 30828	5P male vert.
4822 265 31112	5P male hor.
4822 267 41145	5P male
4822 265 31101	3P male hor.
4822 265 40252	7P male
4822 265 40253	8P male

	4822 267 50637	10P female

Various

	4822 267 20427	Socket SCART+4xcinch
	4822 267 20457	Socket SCART+2x cinch
	4822 267 51058	Socket SCART
	4822 267 20409	Socket cinch+SVHS
	4822 267 41005	Socket 2xcinch+2xSVHS
	4822 404 31305	Bracket for black-stretch
	4822 212 30803	µP panel
	4822 900 10506	Software FL2.24/FL2.16/FL2.26/FL4.17
1160	4822 210 10507	FQ816ME/B
1160	4822 210 10548	FQ916ME/BL
1160	4822 210 10549	FQ916DME/B
1160	4822 210 10556	FQ944/LIF
1160	4822 210 10557	FQ916DMF/IF
1160	4822 210 10558	FQ916MF/LIF
1160	4822 210 10565	FQ916/BL
1248	4822 242 80364	Filter 4,434MHz
1379	4822 242 70736	Crystal 7,159 090 MHz
1380	4822 242 70304	Crystal 8,867 238 MHz
1600	4822 212 30039	SECAM DK panel
1602	4822 242 80276	Crystal 10MHz

⊣⊢

2111	4822 126 11544	22nF 63V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 126 11544	22nF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22nF 63V
2130	4822 122 31797	22nF 10% 63V
2132	4822 122 31797	22nF 10% 63V
2137▲	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2162	4822 124 41829	1000µF 20% 6,3V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2165	4822 122 31947	100nF 20% 63V
2166	4822 124 40195	150µF 20% 16V
2168	4822 122 32927	220nF 20% 50V
2169▲	4822 122 32442	10nF 50V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172▲	4822 124 40433	47µF 20% 25V
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22nF 63V
2188	4822 126 11544	22nF 63V
2189	4822 126 11544	22nF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22nF 63V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2198	4822 121 41856	22nF 5% 250V
2216	4822 122 32927	220nF 20% 50V
2219	4822 122 32927	220nF 20% 50V
2221	4822 122 31775	680pF 2% 63V
2221	4822 122 32482	22pF 2% 63V
2234	4822 122 32927	220nF 20% 50V
2240	4822 122 32927	220nF 20% 50V
2242▲	4822 124 40196	220µF 20% 16V
2243	4822 121 42408	220nF 5% 63V
2245	4822 122 32927	220nF 20% 50V
2249	4822 122 32862	10nF 80% 50V
2250	4822 051 10102	1k 2% 0,25W
2252	4822 121 42408	220nF 5% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF 20% 50V
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2268	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 2% 63V
2270	4822 126 11544	22nF 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 126 10324	33pF 2% 63V
2306	4822 122 31772	47pF 2% 63V
2309	4822 122 31772	47pF 2% 63V
2312	4822 126 11544	22nF 63V
2313	4822 122 31774	56pF 2% 63V
2314	4822 122 32482	22pF 2% 63V
2318	4822 121 42408	220nF 5% 63V
2324	4822 126 11544	22nF 63V
2338	4822 122 31772	47pF 2% 63V
2342	4822 122 31972	39pF 2% 63V
2343	4822 122 31727	470pF 2% 63V
2344	4822 122 31775	680pF 2% 63V
2345	4822 122 31807	1200pF 2% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 126 11544	22nF 63V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2372	4822 122 31965	220pF 2% 63V
2373	4822 122 31965	220pF 2% 63V
2374	4822 126 11544	22nF 63V
2375	4822 126 11544	22nF 63V
2376	4822 126 11544	22nF 63V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	2p-33p trim.
2380	4822 125 50207	2p-33p trim.
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383▲	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385▲	4822 122 32442	10nF 50V
2387	4822 124 40248	10µF 20% 63V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 126 11544	22nF 63V
2391	4822 126 11544	22nF 63V
2392	4822 126 11544	22nF 63V
2395	4822 126 11544	22nF 63V
2396	4822 122 32927	220nF 20% 50V
2397	4822 126 11544	22nF 63V
2398	4822 124 40248	10µF 20% 63V
2399▲	4822 124 40433	47µF 20% 25V
2400	4822 126 11544	22nF 63V
2433	4822 126 11544	22nF 63V
2434	5322 122 33446	3,3nF 10% 63V
2435	5322 122 33446	3,3nF 10% 63V
2436	4822 122 31961	68pF 2% 63V
2438	4822 126 11544	22nF 63V
2440	4822 126 11544	22nF 63V
2442	4822 126 11544	22nF 63V
2445	4822 126 11804	330nF
2446	4822 126 11804	330nF
2447	4822 126 11804	330nF
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2453	4822 122 31774	56pF 2% 63V
2454	4822 126 10324	33pF 2% 63V
2455	4822 126 10324	33pF 2% 63V
2456	4822 126 10324	33pF 2% 63V
2476▲	4822 124 40246	4,7µF 20% 63V
2478	4822 122 31784	4,7nF 10% 50V
2479	4822 122 32183	56nF 10% 50V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF 20% 50V
2620	4822 122 32927	220nF 20% 50V
2622	4822 122 32927	220nF 20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF 20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF 20% 50V
2632	5322 122 31842	330pF 2% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 2% 63V
2638	4822 121 42408	220nF 5% 63V
2642	4822 122 32927	220nF 20% 50V
2646	4822 122 32927	220nF 20% 50V
2658	4822 122 31961	68pF 2% 63V
2659	4822 122 31961	68pF 2% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF 5% 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF 5% 50V
2697	4822 122 32765	820pF 2% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 32765	820pF 2% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	5322 124 41431	22µF 20% 35V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 126 11544	22nF 63V
2720	5322 124 41431	22µF 20% 35V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 126 11544	22nF 63V

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3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3112	4822 050 11002	1k 1% 0,4W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3116	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10123	12k 2% 0,25W
3123	4822 051 10123	12k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3130	4822 051 10101	100Ω 2% 0,25W
3130▲	4822 051 10103	10k 2% 0,25W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3133	4822 051 10151	150Ω 2% 0,25W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52175	100Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 050 11002	1k 1% 0,4W
3141	4822 050 11002	1k 1% 0,4W
3142	4822 050 11002	1k 1% 0,4W
3143	4822 050 11002	1k 1% 0,4W
3144	4822 050 11002	1k 1% 0,4W
3145	4822 050 11002	1k 1% 0,4W
3146	4822 050 11002	1k 1% 0,4W
3151	4822 051 10562	5k6 2% 0,25W
3153▲	4822 051 10103	10k 2% 0,25W
3154	4822 051 10152	1k5 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 10562	5k6 2% 0,25W
3157	4822 050 11002	1k 1% 0,4W
3158	4822 050 11002	1k 1% 0,4W
3159▲	4822 051 10103	10k 2% 0,25W
3160▲	4822 052 10109	10Ω 5% 0,33W
3160▲	4822 052 10758	7Ω5 5% 0,33W
3161▲	4822 051 10103	10k 2% 0,25W
3162▲	4822 052 10159	15Ω 5% 0,33W
3162▲	4822 052 10758	7Ω5 5% 0,33W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3164	4822 051 10108	1Ω 5% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10108	1Ω 5% 0,25W
3166▲	4822 052 10228	2Ω2 5% 0,33W
3167	4822 051 10122	1k2 2% 0,25W
3168▲	4822 051 10242	2k4 2% 0,25W
3169	4822 050 11002	1k 1% 0,4W
3170▲	4822 116 82772	3Ω9 5% 0.3W
3171	4822 052 11511	510Ω 5% 0,5W
3172▲	4822 052 10159	15Ω 5% 0,33W
3172▲	4822 111 41424	22Ω 5% 0,3W
3175	4822 051 10153	15k 2% 0,25W
3176▲	4822 051 10103	10k 2% 0,25W
3177▲	4822 051 10103	10k 2% 0,25W
3178	4822 051 10223	22k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 051 51201	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186▲	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10823	82k 2% 0,25W
3191	4822 051 10823	82k 2% 0,25W
3192	4822 051 10153	15k 2% 0,25W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3200▲	4822 051 10472	4k7 2% 0,25W
3201▲	4822 051 10472	4k7 2% 0,25W
3202▲	4822 051 10472	4k7 2% 0,25W
3203	4822 116 52191	33Ω 5% 0,5W
3204	4822 116 52175	100Ω 5% 0,5W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211▲	4822 116 52217	270Ω 5% 0,5W
3211	4822 116 52224	470Ω 5% 0,5W
3212	4822 116 52191	33Ω 5% 0,5W
3213	4822 051 10102	1k 2% 0,25W
3215	4822 051 10689	68Ω 2% 0,25W
3216▲	4822 052 10828	8Ω2 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10008	0Ω 5% 0,25W
3219	4822 051 10271	270Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10561	560Ω 2% 0,25W
3222▲	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 051 10471	470Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237▲	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3242▲	4822 116 52219	330Ω 5% 0,5W
3243	4822 051 10152	1k5 2% 0,25W
3244	4822 051 10102	1k 2% 0,25W
3245	4822 051 10474	470k 2% 0,25W
3246	4822 051 10331	330Ω 2% 0,25W
3247	4822 051 10102	1k 2% 0,25W
3248	4822 051 10681	680Ω 2% 0,25W
3249	4822 051 10102	1k 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254▲	4822 052 10828	8Ω2 5% 0,33W
3255	4822 051 10821	820Ω 2% 0,25W
3259▲	4822 051 10103	10k 2% 0,25W
3260▲	4822 052 10828	8Ω2 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262▲	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3265▲	4822 051 10103	10k 2% 0,25W
3266▲	4822 051 10103	10k 2% 0,25W
3267▲	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270▲	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274▲	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W
3279	4822 051 10689	68Ω 2% 0,25W
3281	4822 116 52201	75Ω 5% 0,5W
3285	4822 051 10123	12k 2% 0,25W
3286	4822 051 10123	12k 2% 0,25W
3287	4822 051 10123	12k 2% 0,25W
3288	4822 051 10123	12k 2% 0,25W
3300▲	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3302	4822 051 10331	330Ω 2% 0,25W
3303	4822 051 10361	360Ω 2% 0,25W
3304	4822 051 10101	100Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10361	360Ω 2% 0,25W
3307	4822 051 10331	330Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10101	100Ω 2% 0,25W
3310▲	4822 116 52283	4k7 5% 0,5W
3316	4822 051 10112	1k1 2% 0,25W
3318▲	4822 051 10103	10k 2% 0,25W
3319	4822 116 52233	10k 5% 0,5W
3320▲	4822 116 52283	4k7 5% 0,5W
3321	4822 051 10511	510Ω 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326▲	4822 051 10103	10k 2% 0,25W
3326	4822 051 10123	12k 2% 0,25W
3326	4822 051 103323k3 2% 0,25W	
3326	4822 122 31947	100nF 20% 63V

Spare parts list / Stükliste / Liste des pièces

3327	4822 051 10122	1k2 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3344	4822 051 10273	27k 2% 0,25W
3345	4822 051 10102	1k 2% 0,25W
3346	4822 051 10102	1k 2% 0,25W
3348▲	4822 051 10472	4k7 2% 0,25W
3350	4822 051 51201	120Ω 1% 0,125W
3351▲	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360▲	4822 052 10278	2Ω7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3365	4822 051 10331	330Ω 2% 0,25W
3365	4822 051 10332	3k3 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω 30% lin
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3375	4822 116 80176	1Ω 5% 0,5W
3377	4822 051 10682	6k8 2% 0,25W
3380	4822 050 11002	1k 1% 0,4W
3382	4822 051 20222	2k2 5% 0,1W
3383	4822 051 10333	33k 2% 0,25W
3387	4822 050 11002	1k 1% 0,4W
3389	4822 051 10182	1k8 2% 0,25W
3391	4822 051 20222	2k2 5% 0,1W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10101	100Ω 2% 0,25W
3395	4822 051 10471	470Ω 2% 0,25W
3396	4822 051 20222	2k2 5% 0,1W
3397	4822 052 10249	24Ω 5% 0,33W
3397	4822 116 81192	12Ω 5% 0,3W
3398	4822 116 52175	100Ω 5% 0,5W
3399	4822 116 52175	100Ω 5% 0,5W
3401▲	4822 052 10339	33Ω 5% 0,33W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10221	220Ω 2% 0,25W
3441	4822 051 10221	220Ω 2% 0,25W
3443	4822 051 10221	220Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451▲	4822 051 10103	10k 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 051 10479	47Ω 2% 0,25W
3471	4822 116 52233	10k 5% 0,5W
3472	4822 051 10682	6k8 2% 0,25W
3473	4822 051 10362	3k6 2% 0,25W
3474	4822 051 10101	100Ω 2% 0,25W
3475	4822 051 10124	120k 2% 0,25W
3476	4822 051 10154	150k 2% 0,25W
3477	4822 116 52286	5k1 5% 0,5W
3477	4822 116 52297	68k 5% 0,5W
3478	4822 116 52224	470Ω 5% 0,5W
3479	4822 051 10008	0Ω 5% 0,25W
3479	4822 051 10223	22k 2% 0,25W
3480▲	4822 052 10278	2Ω7 5% 0,33W
3481▲	4822 052 10278	2Ω7 5% 0,33W
3482	4822 052 10431	430Ω 5% 0,33W
3483	4822 116 52175	100Ω 5% 0,5W
3484	4822 051 10102	1k 2% 0,25W
3600	4822 051 10301	300Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3602	4822 100 11212	2k2 30% lin
3603	4822 051 10108	1Ω 5% 0,25W
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 0,25W
3604	4822 051 10272	2k7 2% 0,25W
3605▲	4822 051 10472	4k7 2% 0,25W
3606▲	4822 052 10279	27Ω 5% 0,33W
3608	4822 051 10101	100Ω 2% 0,25W
3610	4822 051 10101	100Ω 2% 0,25W
3612	4822 051 10102	1k 2% 0,25W
3620	4822 051 10184	180k 2% 0,25W
3622	4822 051 10184	180k 2% 0,25W
3624	4822 051 10102	1k 2% 0,25W
3626	4822 051 10184	180k 2% 0,25W
3628	4822 051 10102	1k 2% 0,25W
3630	4822 051 10184	180k 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3634	4822 051 10184	180k 2% 0,25W
3636	4822 051 10102	1k 2% 0,25W
3638	4822 051 10184	180k 2% 0,25W
3642	4822 051 10184	180k 2% 0,25W
3646	4822 051 10184	180k 2% 0,25W
3650	4822 051 10392	3k9 2% 0,25W
3651	4822 051 10123	12k 2% 0,25W
3652	4822 051 10392	3k9 2% 0,25W
3653	4822 051 10123	12k 2% 0,25W
3654	4822 116 52244	15k 5% 0,5W
3660	4822 051 10331	330Ω 2% 0,25W
3662	4822 051 10151	150Ω 2% 0,25W
3664	4822 051 10331	330Ω 2% 0,25W
3665▲	4822 116 81193	15Ω 5% 0,3W
3666	4822 051 10151	150Ω 2% 0,25W
3668	4822 051 10331	330Ω 2% 0,25W
3672	4822 051 10331	330Ω 2% 0,25W
3680▲	4822 052 10279	27Ω 5% 0,33W
3682	4822 051 10568	5Ω6 5% 0,25W
3684	4822 116 52175	100Ω 5% 0,5W
3686	4822 116 52175	100Ω 5% 0,5W
3700	4822 116 52263	2k7 5% 0,5W
3702	4822 051 10223	22k 2% 0,25W
3704	4822 051 10102	1k 2% 0,25W
3706▲	4822 116 81203	10Ω 5% 0,3W
3708	4822 051 10101	100Ω 2% 0,25W
3710	4822 051 20183	18k 5% 0,1W
3712	4822 116 52203	91Ω 5% 0,5W
3713	4822 116 52203	91Ω 5% 0,5W
3714	4822 051 10828	8Ω2 5% 0,25W
3720▲	4822 116 81203	10Ω 5% 0,3W
3722	4822 116 52263	2k7 5% 0,5W
3724	4822 051 10223	22k 2% 0,25W
3726	4822 051 10102	1k 2% 0,25W
3728	4822 051 10101	100Ω 2% 0,25W
3730	4822 051 20183	18k 5% 0,1W
3732	4822 116 52203	91Ω 5% 0,5W
3733	4822 116 52203	91Ω 5% 0,5W
3734	4822 051 10828	8Ω2 5% 0,25W
3750	4822 051 10272	2k7 2% 0,25W
3751▲	4822 051 10472	4k7 2% 0,25W
3997	4822 051 10008	0Ω 5% 0,25W
3997	4822 122 31947	100nF 20% 63V
4xxx	4822 051 10008	0Ω 5% 0,25W
9104	4822 116 52191	33E 5% 0,5W

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5115	4822 152 20677	10µH 10%
5270	4822 157 52983	22µH 10%
5280	4822 157 63065	0,68µH 20%
5303	4822 157 53302	1µH 20%
5304	4822 157 53302	1µH 20%
5305	4822 157 62823	26µH 6%
5330	4822 157 62823	26µH 6%
5331	4822 152 20678	33µH 10%
5332	4822 157 62823	26µH 6%
5345	4822 157 62822	4,5µH 6%
5346	4822 157 62823	26µH 6%
5370	4822 157 62824	7,5µH 6%
5454	4822 157 63065	0,68µH 20%
5455	4822 157 63065	0,68µH 20%
5456	4822 157 63065	0,68µH 20%
5460	4822 157 63065	0,68µH 20%

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6112	4822 130 82334	BAS85
6117	4822 130 80906	LLZ-F7V5
6120	4822 130 80446	LL4148
6121	4822 130 80446	LL4148
6135	4822 130 80905	LLZ-F5V1
6136	4822 130 83086	LL4150
6137	4822 130 83086	LL4150
6163	4822 130 81226	LLZ-F33
6165	4822 130 80446	LL4148
6166	4822 130 80446	LL4148
6168	4822 130 80446	LL4148
6170	4822 130 80446	LL4148
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6179	4822 130 81222	LLZ-C15
6205	4822 130 80446	LL4148
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148
6256	4822 130 80446	LL4148
6257	4822 130 80446	LL4148
6280	4822 130 80446	LL4148
6280	4822 130 82334	BAS85
6281	4822 130 80446	LL4148
6281	4822 130 82334	BAS85
6331	4822 130 80882	LLZ-C3V9
6342	4822 130 80888	BA682
6343	4822 130 80888	BA682
6345	4822 130 30841	1N4150
6370	4822 130 83406	LLZ-F3V6
6386	4822 130 80446	LL4148
6387	4822 130 80954	LLZ-C5V6
6450	4822 130 81512	LLZ-C6V2
6465	4822 130 80446	LL4148
6471▲	4822 130 30621	1N4148
6478	4822 130 82345	LLZ-C22
6478	4822 130 82346	LLZ-C27
6479	4822 130 80877	BAV103
6480	4822 130 82882	LLZ-F8V2
6481	4822 130 80881	LLZ-C33
6610▲	4822 130 30621	1N4148
6611▲	4822 130 30621	1N4148
6660	4822 130 80446	LL4148
6661	4822 130 81223	LLZ-C2V4
6662	4822 130 80446	LL4148
6663	4822 130 81223	LLZ-C2V4
6664	4822 130 80446	LL4148
6665	4822 130 80446	LL4148

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7110	4822 130 42513	BC858C
7119▲	5322 130 41982	BC848B
7120▲	5322 130 41982	BC848B
7121	4822 130 42513	BC858C
7137	4822 209 32283	ST24C08CB1
7150	5322 130 42136	BC848C
7175	5322 209 10883	PCF8574P
7176	4822 130 42513	BC858C
7177	4822 130 42513	BC858C
7178▲	5322 130 41982	BC848B
7182	5322 130 44743	BSR12
7183▲	5322 130 41982	BC848B
7186	4822 209 73852	PMBT2369
7188	4822 130 60511	BC847B
7193	4822 209 61115	LF353N
7216	4822 130 42615	BC817-40
7219	4822 209 63292	TEA6414
7243	5322 130 41983	BC858B
7244▲	5322 130 41982	BC848B
7258	5322 209 10421	HEF4094BP
7260	4822 130 42615	BC817-40
7261	5322 130 42136	BC848C
7265▲	5322 130 41982	BC848B
7268	4822 130 42615	BC817-40
7270▲	5322 130 41982	BC848B
7273	4822 130 42615	BC817-40
7305	5322 130 41983	BC858B
7311▲	5322 130 41982	BC848B
7314	5322 130 42136	BC848C
7324	4822 209 63901	TDA4568/V2
7330	5322 130 42136	BC848C
7331	5322 130 42136	BC848C
7332	5322 130 42136	BC848C
7333	5322 130 42136	BC848C
7335	4822 130 42513	BC858C
7336	5322 130 42136	BC848C
7338▲	5322 130 41982	BC848B
7340	4822 130 60887	BF840
7350▲	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
7430	4822 209 31592	TDA4680/V6
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	4822 130 63528	BD533P
7600	4822 209 63967	TDA8417/V3
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 61115	LF353N
7635	4822 209 61115	LF353N
7660▲	5322 130 41982	BC848B
7661▲	5322 130 41982	BC848B
7662▲	5322 130 41982	BC848B
7680	4822 209 63734	TDA8425/V7
7704▲	4822 209 83163	LM833N
7706▲	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730▲	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

Mains switch panel [A]

▲	4822 265 40596	2P male
▲	4822 265 30389	2P male
	4822 267 51348	2P horizontal

Various

1001	4822 212 30763	Mains switch panel FL2
1001	4822 212 31409	Mains switch panel FL4
	4822 276 13422	Mains switch FL2
	4822 276 13498	Mains switch FL4

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3201▲	4822 053 21475	4M7 5% 0,5W

Mains filter panel [A]

▲	4822 265 30389	2P male

Various

1002	4822 212 30783	Mains filter panel FL2
1002	4822 212 31408	Mains filter panel FL4
▲	4822 256 30496	Fuse holder
1200▲	4822 070 33151	Fuse 3,15A

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2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V

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3203	4822 111 41573	470Ω
3204	4822 116 40253	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W

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5202▲	4822 157 10291	Transf.CU28D5

Control panel [H]

	4822 265 31097	4P
	4822 265 41334	10P

Various

1004	4822 212 31264	Control panel FL2
1004	4822 212 31406	Keyboard panel FL4
	4822 276 13396	Tack switch

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3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3161	4822 116 52224	470Ω 5% 0,5W
3161	4822 051 10471	470Ω 2% 0,25W
3162	4822 116 52224	470Ω 5% 0,5W
3162	4822 051 10471	470Ω 2% 0,25W
3163	4822 116 52224	470Ω 5% 0,5W
3163	4822 051 10471	470Ω 2% 0,25W
3164	4822 116 52224	470Ω 5% 0,5W
3164	4822 051 10471	470Ω 2% 0,25W
3165	4822 116 52224	470Ω 5% 0,5W
3165	4822 051 10471	470Ω 2% 0,25W
3166	4822 051 10471	470Ω 2% 0,25W
3167	4822 051 10471	470Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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6131	4822 130 83407	LSS260-DO
6132	4822 130 83407	LSS260-DO
6133	4822 130 83407	LSS260-DO
6134	4822 130 83407	LSS260-DO
6135	4822 130 83407	LSS260-DO
6136	4822 130 83407	LSS260-DO
6137	4822 130 83407	LSS260-DO

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7131	5322 130 42012	BC858
7132	5322 130 42012	BC858
7133	5322 130 42012	BC858
7134	5322 130 42012	BC858
7135	5322 130 42012	BC858
7136	5322 130 42012	BC858
7137	5322 130 42012	BC858

Led panel [H]

	4822 265 31096	3P
	4822 265 31097	4P

Various

1003	4822 212 30765	Led panel FL2
1003	4822 212 31407	Led panel FL4
	4822 256 92079	Led holder FL2

	4
1100	4
1100	4

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2100	4
2131	4

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3100	4
3128	4
3188	4
3189	4
3198	4
3199	4
4xxx	4

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5100	48

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6128	48
6129	48

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7128	53
7128	53
7129	53
7129	53
7130	53

Conn

48
48
48

Various

1005	48
1005	48
	48
	48

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2241	48
2640	53
2640	48
2644	53
2644	48
2716	48
2736	48

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3241	48
3251	48
3252	48
3640	48
3641	48
3644	48
3645	48
4xxx	48

North/

48
48

Various

1060	48

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2450	48
2452	48
2453	53

	4822 255 41325	Led holder FL4
1100	4822 212 23281	IR receiver FL2
1100	4822 212 31399	IR receiver FL4

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2100	4822 124 40684	150µF 20% 6,3V
2131	4822 124 22606	68µF 20% 16V

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3100	4822 051 10102	1k 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3188	4822 051 10101	100Ω 2% 0,25W
3189	4822 051 10101	100Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5100	4822 157 53906	47µH

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6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405

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7128	5322 130 42012	BC858
7128	5322 130 41983	BC858B
7129	5322 130 42012	BC858
7129	5322 130 41983	BC858B
7130	5322 130 42136	BC848C

Connector panel [C]

4822 267 40666	3P
4822 265 30985	3P black
4822 265 41335	11P

Various

1005	4822 212 31265	Connector panel FL2
1005	4822 212 31405	Connector panel FL4
	4822 267 20454	Socket headph.+cinch+SV HS FL2
	4822 267 20462	Socket headph.+cinch+SV HS FL4

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2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2640	4822 121 70438	330pF 5% 100V
2644	5322 122 31842	330pF 2% 63V
2644	4822 121 70438	330pF 5% 100V
2716	4822 122 32597	6,8nF 10% 63V
2736	4822 122 32597	6,8nF 10% 63V

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3241	4822 051 10759	75Ω 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3641	4822 051 10223	22k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3645	4822 051 10223	22k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

North/South panel [B']

4822 264 40207	3P male
4822 265 20509	2P grey

Various

1060	4822 212 31004	North/South panel

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2450	4822 121 51049	15nF 1% 63V
2452	4822 121 41857	10nF 5% 250V
2453	5322 121 42386	100nF 5% 63V

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3452	4822 116 52175	100Ω 5% 0,5W
3453	4822 116 52195	47Ω 5% 0,5W
3454	4822 116 52283	4k7 5% 0,5W
3455	4822 116 52283	4k7 5% 0,5W
3456	4822 116 52264	27k 5% 0,5W
3457	4822 116 52264	27k 5% 0,5W
3459	4822 053 11108	1Ω 5% 2W
3460	4822 116 52217	270Ω 5% 0,5W
3461	5322 100 11542	4k7 30% lin
3462	4822 116 52207	1k2 5% 0,5W

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5450	4822 157 62336	100µH 10%
5452	4822 157 71033	N/S correction coil

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6452	4822 130 30621	1N4148
6453	5322 130 34834	BZX79-C3V6
6454	4822 130 34499	BZX79-C20
6455	4822 130 30621	1N4148

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7450	4822 130 63441	J108
7451	4822 130 63441	J108

Scavem amplifier panel [Z]

4822 265 20509	2P grey
4822 265 40818	8P male
4822 264 40207	3P male
4822 267 41143	3P male
4822 267 40666	3P male blue

Various

1041	4822 212 31327	Scaven panel FL2.24 28"
1041	4822 212 31258	Scavem panel FL2.24 32"
1041	4822 212 31259	Scavem panel FL2.X6

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2604	4822 124 22427	47µF 20% 40V
2605	4822 122 33496	100nF 10% 63V
2606	4822 124 22427	47µF 20% 40V
2607	4822 122 33496	100nF 10% 63V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2620▲	4822 122 32442	10nF 50V
2622▲	4822 122 32442	10nF 50V
2623	4822 122 33496	100nF 10% 63V
2624▲	4822 122 32442	10nF 50V
2625	4822 124 40255	100µF 20% 63V
2634▲	4822 122 32442	10nF 50V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2638	4822 122 33496	100nF 10% 63V
2639	4822 122 33496	100nF 10% 63V
2642▲	4822 122 32442	10nF 50V
2646	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2661	4822 124 41596	22µF 20% 50V
2671	4822 122 31727	470pF 2% 63V
2671	4822 122 31775	680pF 2% 63V
2671	4822 122 31727	470pF 2% 63V
2672	4822 122 31727	470pF 2% 63V
2672	4822 122 31775	680pF 2% 63V
2672	4822 122 31727	470pF 2% 63V

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3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 2% 0,25W
3411	4822 051 10104	100k 2% 0,25W
3412	4822 051 10104	100k 2% 0,25W
3413	4822 050 11002	1k 1% 0,4W
3421	4822 051 10473	47k 2% 0,25W
3422▲	4822 051 10103	10k 2% 0,25W
3423	4822 051 10104	100k 2% 0,25W
3424	4822 051 10104	100k 2% 0,25W
3425	4822 051 10473	47k 2% 0,25W
3426▲	4822 053 11821	820Ω 5% 2W
3430	4822 051 10473	47k 2% 0,25W
3431	4822 051 10473	47k 2% 0,25W
3432▲	4822 051 10103	10k 2% 0,25W
3433	4822 051 10104	100k 2% 0,25W
3434	4822 051 10104	100k 2% 0,25W
3435	4822 051 10473	47k 2% 0,25W
3606	4822 051 10478	4Ω7 5% 0,25W
3608	4822 051 10478	4Ω7 5% 0,25W
3609▲	4822 052 10478	4Ω7 5% 0,33W
3610▲	4822 052 10478	4Ω7 5% 0,33W
3612	4822 051 10478	4Ω7 5% 0,25W
3613	4822 051 10478	4Ω7 5% 0,25W
3614	4822 051 10478	4Ω7 5% 0,25W
3615▲	4822 050 24708	4Ω7 1% 0,6W
3630▲	4822 053 10681	680Ω 5% 1W
3632	4822 116 52224	470Ω 5% 0,5W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W
3637	4822 116 52224	470Ω 5% 0,5W
3638▲	4822 053 10681	680Ω 5% 1W
3640	4822 051 10473	47k 2% 0,25W
3641	4822 051 10152	1k5 2% 0,25W
3642	4822 051 10132	1k3 2% 0,25W
3643	4822 051 10339	33Ω 2% 0,25W
3645▲	4822 052 10479	47Ω 5% 0,33W
3647▲	4822 052 10479	47Ω 5% 0,33W
3648	4822 051 10681	680Ω 2% 0,25W
3649	4822 051 10243	24k 2% 0,25W
3650	4822 051 10122	1k2 2% 0,25W
3652	4822 051 10331	330Ω 2% 0,25W
3653	4822 051 10471	470Ω 2% 0,25W
3654	4822 051 10331	330Ω 2% 0,25W
3655	4822 051 10471	470Ω 2% 0,25W
3656	4822 051 10331	330Ω 2% 0,25W
3657	4822 051 10471	470Ω 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10471	470Ω 2% 0,25W
3661	4822 051 10104	100k 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W
3672	4822 051 10102	1k 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W
3998	4822 051 10569	56Ω 2% 0,25W

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5612	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH

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6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1
6625	4822 130 80446	LL4148
6630	4822 130 80446	LL4148
6638	4822 130 80446	LL4148
6647	4822 130 80446	LL4148
6661	4822 130 80446	LL4148
6662	4822 130 80446	LL4148

⊗ ▭

7401	5322 130 42756	BC857C
7411	5322 130 42756	BC857C
7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42755	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847
7433	5322 130 42756	BC857C
7435	5322 130 42755	BC847C
7607	4822 130 42705	BC847
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825
7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826
7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847
7621	4822 130 61233	BC857

Scavem filter panel [Y]

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

Various

1042	4822 212 31262	Scavem filter FL2.24 32"
1042	4822 212 31263	Scavem filter FL2.X6
1042	4822 212 31326	Scavem filter FL2.24 28"

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2501▲	4822 122 32442	10nF 50V
2502▲	4822 122 32442	10nF 50V
2503	4822 122 33496	100nF 10% 63V
2504	4822 122 33496	100nF 10% 63V
2505	5322 122 31647	1nF 10% 63V
2507	4822 124 40248	10µF 20% 63V
2508	4822 122 33496	100nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2512▲	4822 122 32442	10nF 50V
2513	4822 122 33496	100nF 10% 63V
2516	4822 122 31771	390pF 2% 63V
2517	4822 122 32082	4,7pF 5% 50V
2518	4822 122 32082	4,7pF 5% 50V
2526	4822 122 31825	27pF 2% 63V
2527	4822 122 31772	47pF 2% 63V
2528	4822 122 32504	15pF 2% 63V
2529	4822 122 33496	100nF 10% 63V
2531	4822 122 31825	27pF 2% 63V
2532	5322 122 31647	1nF 10% 63V
2538	4822 122 31965	220pF 2% 63V
2541	4822 122 31825	27pF 2% 63V
2542	5322 122 31647	1nF 10% 63V
2548	4822 122 31965	220pF 2% 63V
2550▲	4822 122 32442	10nF 50V
2560	4822 122 31797	22nF 10% 63V
2570	4822 122 31825	27pF 2% 63V

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3400	4822 051 10473	47k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3420	4822 051 10473	47k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3500	4822 051 10102	1k 2% 0,25W
3501	4822 051 10109	10Ω 2% 0,25W
3502	4822 051 10221	220Ω 2% 0,25W
3507▲	4822 052 10478	4Ω7 5% 0,33W
3508	4822 051 10331	330Ω 2% 0,25W
3509	4822 051 10331	330Ω 2% 0,25W
3510	4822 051 10471	470Ω 2% 0,25W
3511	4822 051 10108	1Ω 5% 0,25W
3512	4822 051 10101	100Ω 2% 0,25W
3513▲	4822 051 10103	10k 2% 0,25W
3514▲	4822 051 10472	4k7 2% 0,25W
3515	4822 051 10822	8k2 2% 0,25W
3516	4822 051 10101	100Ω 2% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3520	4822 051 10101	100Ω 2% 0,25W
3521	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10471	470Ω 2% 0,25W
3523	4822 051 10471	470Ω 2% 0,25W
3524	4822 051 10241	240Ω 2% 0,25W
3525	4822 051 10182	1k8 2% 0,25W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 051 10471	470Ω 2% 0,25W
3529▲	4822 051 10472	4k7 2% 0,25W
3530	4822 051 10511	510Ω 2% 0,25W
3531▲	4822 051 10103	10k 2% 0,25W
3532	4822 051 10562	5k6 2% 0,25W
3532	4822 051 10752	7k5 2% 0,25W
3533	4822 051 10471	470Ω 2% 0,25W
3534	4822 051 10332	3k3 2% 0,25W
3535	4822 051 10511	510Ω 2% 0,25W
3536	4822 051 10751	750Ω 2% 0,25W
3537	4822 051 51201	120Ω 1% 0,125W
3538	4822 051 10279	27Ω 2% 0,25W
3540	4822 051 10511	510Ω 2% 0,25W
3541▲	4822 051 10103	10k 2% 0,25W
3542	4822 051 10562	5k6 2% 0,25W
3542	4822 051 10752	7k5 2% 0,25W
3544	4822 051 10332	3k3 2% 0,25W
3545	4822 051 10511	510Ω 2% 0,25W
3546	4822 051 10751	750Ω 2% 0,25W
3547	4822 051 51201	120Ω 1% 0,125W
3548	4822 051 10279	27Ω 2% 0,25W
3551	4822 051 10241	240Ω 2% 0,25W
3560	4822 051 10101	100Ω 2% 0,25W
3561	4822 051 10101	100Ω 2% 0,25W
3570	4822 051 10759	75Ω 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W

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5526	4822
5527	4822
5570	4822

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6530	5322
6540	5322
6550	5322
6559	4822

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7400	5322
7410	5322
7420	5322
7500	5322
7504	4822
7505	4822
7506	4822
7507	4822
7508	4822
7509	4822
7531	4822
7541	4822
7550	5322
7560	4822

DAF par

▲	4822
	4822
	4822

Various

1043	4822

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2860▲	4822 1
2861▲	4822 1

▭

3301	4822 1
3302	4822 1

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5860	4822 1

Panoram

4822 2
4822 2
4822 2
4822 2
4822 2

Various

1028	4822 2
1028	4822 2

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2101	4822 1
2102	4822 1
2105	4822 1
2106	4822 1
2110	4822 1
2110	4822 1
2140	4822 1
2141	4822 1

▭

3100	4822 1
3101	4822 1
3102▲	4822 1
3105	4822 1
3106	4822 1
3107	4822 0
3108	4822 0
3109	4822 0
3110▲	4822 1
3111▲	4822 1

Spare parts list / Stükliste / Liste des pièces

avem filter
2.24 32"
avem filter
2.X6
avem filter
2.24 28"

nF 50V
nF 50V
0nF 10% 63V
0nF 10% 63V
F 10% 63V
µF 20% 63V
0nF 10% 63V
F 10% 63V
nF 50V
0nF 10% 63V

0pF 2% 63V
7pF 5% 50V
7pF 5% 50V
pF 2% 63V
pF 2% 63V
pF 2% 63V
0nF 10% 63V
pF 2% 63V
F 10% 63V
0pF 2% 63V

pF 2% 63V
F 10% 63V
0pF 2% 63V
nF 50V
nF 10% 63V
pF 2% 63V

k 2% 0,25W
k 2% 0,25W
k 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
Ω 2% 0,25W
0Ω 2% 0,25W
7 5% 0,33W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
5% 0,25W
0Ω 2% 0,25W
k 2% 0,25W
7 2% 0,25W
2 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
2% 0,25W
0Ω 2% 0,25W
7 2% 0,25W
0Ω 2% 0,25W

k 2% 0,25W
2% 0,25W
2% 0,25W
0Ω 2% 0,25W
3 2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2% 0,25W
0Ω 2% 0,25W

2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W
0Ω 1% 0,125W
2% 0,25W
0Ω 2% 0,25W
0Ω 2% 0,25W

0Ω 2% 0,25W
2% 0,25W
2% 0,25W
2% 0,25W

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5526	4822 157 53066	15µH 10%
5527	4822 157 60123	6,8µH 10%
5570	4822 157 60123	6,8µH 10%

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6530	5322 130 34337	BAV99
6540	5322 130 34337	BAV99
6550	5322 130 34337	BAV99
6559	4822 130 80884	LLZ-C5V1

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7400	5322 130 42755	BC847C
7410	5322 130 42755	BC847C
7420	5322 130 42755	BC847C
7500	5322 130 42012	BC858
7504	4822 209 30404	NE592/N8
7505	4822 130 61207	BC848
7506	4822 130 61207	BC848
7507	4822 130 61207	BC848
7508	4822 209 73852	PMBT2369
7509	4822 209 73852	PMBT2369
7531	4822 130 61207	BC848
7541	4822 130 61207	BC848
7550	5322 130 60646	BSR57
7560	4822 209 63896	PCF8574AP

DAF panel [B]

▲	4822 265 40596	2P male
	4822 267 41018	2P red
	4822 265 20509	2P grey

Various

1043	4822 212 31261	DAF panel

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2860▲	4822 126 12267	470pF 10% 2kV
2861▲	4822 126 12239	560pF 10% 2kV

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3301	4822 116 21221	1M A 385V VDR
3302	4822 116 21221	1M A 385V VDR

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5860	4822 148 81242	Transf. DAF

Panorama panel [B]

	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 41144	3P grey
	4822 267 41142	3P
	4822 267 41143	3P

Various

1028	4822 212 31324	Panoramic view 32"
1028	4822 212 31325	Panoramic view 28"

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2101	4822 121 51563	560nF 5% 250V
2102	4822 121 51563	560nF 5% 250V
2105	4822 124 80341	1µF 20% 160V
2106	4822 124 80341	1µF 20% 160V
2110	4822 121 51563	560nF 5% 250V
2110	4822 121 70281	510nF 5% 400V
2140	4822 126 12784	22nF 20% 100V
2141	4822 124 40255	100µF 20% 63V

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3100	4822 116 52258	220k 5% 0,5W
3101	4822 116 52274	36k 5% 0,5W
3102▲	4822 116 52215	220Ω 5% 0,5W
3105	4822 116 52267	30k 5% 0,5W
3106	4822 116 52267	30k 5% 0,5W
3107	4822 052 10332	3k3 5% 0,33W
3108	4822 052 10332	3k3 5% 0,33W
3109	4822 052 10332	3k3 5% 0,33W
3110▲	4822 116 52197	56Ω 5% 0,5W
3111▲	4822 116 52197	56Ω 5% 0,5W
3115	4822 116 80176	1Ω 5% 0,5W
3121	4822 116 52296	6k8 5% 0,5W
3122	4822 116 52296	6k8 5% 0,5W
3140	4822 116 52175	100Ω 5% 0,5W
3141	4822 116 52175	100Ω 5% 0,5W
3142▲	4822 116 52283	4k7 5% 0,5W
3143▲	4822 116 52256	2k2 5% 0,5W
3144▲	4822 116 52283	4k7 5% 0,5W
3145	4822 116 52296	6k8 5% 0,5W
3146	4822 116 52296	6k8 5% 0,5W
3148	4822 050 11002	1k 1% 0,4W
3149	4822 116 52175	100Ω 5% 0,5W
3198	4822 051 10333	33k 2% 0,25W
3198	4822 116 52264	27k 5% 0,5W
3199	4822 051 10333	33k 2% 0,25W
3199	4822 116 52264	27k 5% 0,5W

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5110	4822 157 63256	Coil CU15

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6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZX79-C20
6120	4822 130 34233	BZX79-C5V1

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7100	4822 130 63364	IRFI640G
7140	4822 209 63896	PCF8574AP
7141	4822 130 44257	BC547
7142▲	4822 209 32126	SOC1012T

Picture tube panel [E]

	4822 265 20509	2P male grey
▲	4822 265 40596	2P male Vg2
	4822 267 41146	6P male
	4822 267 60379	7P male

Various

1030	4822 212 31321	PTP 29"
1030	4822 212 31385	PTP 25"-28"-33"
1030	4822 212 31322	PTP 28" FL2.24
1030	4822 212 31323	PTP 32" FL2.24
	4822 255 70261	Socket for CRT 25"-28"-33"
	4822 267 51225	Socket for CRT 29"
	4822 267 51249	Socket for CRT 28" FL2.24
	4822 267 51248	Socket for CRT 32" FL2.24
	4822 492 70788	Spring fix IC
	4822 404 31199	Bracket

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2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32139	12pF 2% 63V
2701	4822 122 32507	6,8pF 5% 50V
2702	4822 122 31784	4,7nF 10% 50V
2703	4822 121 42068	33 nF 10% 400V
2704	4822 122 31746	1nF 2% 63V
2705▲	4822 124 40433	47µF 20% 25V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2707	4822 121 70093	33nF 5% 2kV
2708	4822 122 31773	560pF 2% 63V
2708	5322 122 31842	330pF 2% 63V
2709	4822 124 80091	4,7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 31971	10pF 2% 63V
2711	4822 122 32507	6,8pF 5% 50V
2712	4822 122 31784	4,7nF 10% 50V
2713	4822 121 42068	33 nF 10% 400V
2714	4822 122 31746	1nF 2% 63V
2715	4822 121 42068	33 nF 10% 400V
2720	4822 122 31825	27pF 2% 63V
2721	4822 122 31971	10pF 2% 63V
2721	4822 122 32504	15pF 2% 63V
2722	4822 122 31784	4,7nF 10% 50V
2724	4822 122 31746	1nF 2% 63V
2725	4822 122 31774	56pF 2% 63V
2726	4822 122 31774	56pF 2% 63V
2727	4822 122 31774	56pF 2% 63V
2729	4822 121 41156	68nF 10% 250V

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3700	4822 051 20222	2k2 5% 0,1W
3701▲	4822 052 11108	1Ω 5% 0,5W
3701	4822 052 11338	3Ω3 5% 0,5W
3701	4822 052 11398	3Ω9 5% 0,5W
3702	4822 051 10201	200Ω 2% 0,25W
3703▲	4822 052 11108	1Ω 5% 0,5W
3703	4822 052 11338	3Ω3 5% 0,5W
3703	4822 052 11398	3Ω9 5% 0,5W
3704	4822 051 10222	2k2 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705▲	4822 051 10242	2k4 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3707	4822 051 10008	0Ω 5% 0,25W
3708	4822 111 50579	680Ω 10% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3709	4822 051 10154	150k 2% 0,25W
3710	4822 051 10333	33k 2% 0,25W
3710	4822 051 10822	8k2 2% 0,25W
3712	4822 051 10201	200Ω 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3714	4822 051 20222	2k2 5% 0,1W
3715▲	4822 051 10242	2k4 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21204	120k 1% 0,6W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50579	680Ω 10% 0,5W
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3722	4822 051 10201	200Ω 2% 0,25W
3723	4822 050 11002	1k 1% 0,4W
3724	4822 051 10272	2k7 2% 0,25W
3724	4822 051 20222	2k2 5% 0,1W
3725▲	4822 051 10242	2k4 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 41572	220Ω 10% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731▲	4822 052 10279	27Ω 5% 0,33W
3732▲	4822 052 10189	18Ω 5% 0,33W
3733	4822 051 10008	0Ω 5% 0,25W
3734	4822 050 21604	160k 1% 0,6W
3735▲	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10123	12k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 053 12823	82k 5% 3W
3739	4822 101 11185	47kΩ 10%
3740	4822 050 21604	160k 1% 0,6W
3741	4822 116 52221	360Ω 5% 0,5W
3742	4822 116 52221	360Ω 5% 0,5W
3743	4822 116 52221	360Ω 5% 0,5W
3744▲	4822 052 10229	22Ω 5% 0,33W
3750▲	4822 051 10103	10k 2% 0,25W
3750	4822 051 10223	22k 2% 0,25W
3750	4822 051 10563	56k 2% 0,25W
3750	4822 051 10823	82k 2% 0,25W
3998	4822 051 10223	22k 2% 0,25W
3998	4822 051 10823	82k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5700	4822 157 70635	33µH 7,5%
5700	4822 157 70636	82µH 5%
5700	4822 157 70854	39µH 5%
5703	4822 157 70635	33µH 7,5%

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6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708▲	4822 130 32896	BYD33M
6709	4822 130 82969	BZD23-C24
6710	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 30842	BAV21

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7704	4822 130 60373	BC856B
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 30417	TDA6111Q/N2

Euro AV3 panel [R]

	4822 265 31174	6P grey

Various

	4822 267 51335	Socket scart
1022	4822 212 31256	Scart panel

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2301	4822 121 42408	220nF 5% 63V
2304	4822 121 70438	330pF 5% 100V
2306	4822 121 70438	330pF 5% 100V

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3304▲	4822 050 21002	1k 1% 0,6W
3306▲	4822 050 21002	1k 1% 0,6W

Euro AV3 interface panel [P]

	4822 265 51371	Strip 29P
	4822 265 31174	6P grey

Various

1255	4822 212 31257	Scart interface panel

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2005	4822 124 41576	2,2µF 20% 50V
2007	4822 124 41576	2,2µF 20% 50V
2031	4822 122 31971	10pF 2% 63V
2040	4822 122 32927	220nF 20% 50V
2042	4822 122 32927	220nF 20% 50V
2043	4822 122 32927	220nF 20% 50V
2044	4822 122 32927	220nF 20% 50V
2045	4822 122 32927	220nF 20% 50V
2046	4822 122 32927	220nF 20% 50V
2047	4822 122 31947	100nF 20% 63V
2048	4822 122 32927	220nF 20% 50V
2049	4822 122 32927	220nF 20% 50V
2217	4822 124 22606	68µF 20% 16V
2218	4822 124 22606	68µF 20% 16V
2219	4822 124 22606	68µF 20% 16V

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3003	4822 051 10223	22k 2% 0,25W
3005	4822 051 10223	22k 2% 0,25W
3013	4822 116 52224	470Ω 5% 0,5W
3015▲	4822 051 10103	10k 2% 0,25W
3016	4822 051 10271	270Ω 2% 0,25W
3017	4822 051 10271	270Ω 2% 0,25W
3020▲	4822 051 10103	10k 2% 0,25W
3021▲	4822 051 10103	10k 2% 0,25W
3022	4822 051 10271	270Ω 2% 0,25W
3023▲	4822 116 52215	220Ω 5% 0,5W
3025▲	4822 051 10103	10k 2% 0,25W
3026	4822 051 10271	270Ω 2% 0,25W
3027	4822 051 10271	270Ω 2% 0,25W
3030▲	4822 051 10103	10k 2% 0,25W
3031	4822 051 10271	270Ω 2% 0,25W
3032	4822 051 10271	270Ω 2% 0,25W
3040	4822 116 52238	12k 5% 0,5W
3041	4822 116 52238	12k 5% 0,5W
3042	4822 116 52175	100Ω 5% 0,5W
3047▲	4822 116 52283	4k7 5% 0,5W
3048	4822 051 10331	330Ω 2% 0,25W
3210	4822 116 81217	2Ω2 5% 0,3W
3211	4822 116 83584	5Ω6 5% 0,3W
3212▲	4822 116 81193	15Ω 5% 0,3W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5031	4822 152 20677	10µH 10%

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6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148

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7015	4822 130 61207	BC848
7020	4822 130 61207	BC848
7025	4822 130 61207	BC848
7030	4822 130 61207	BC848
7040	4822 209 63292	TEA6414
7200	4822 209 10263	4052B

Spare parts list / Stükliste / Liste des pièces

LFR-box [L] [M]

4822 265 61259	PLCC socket 68P
4822 265 41328	10P female

Various

1750	4822 212 31229	LFR-box FLX.14/16
1750	4822 212 31233	LFR-box FLX.24/26
1750	4822 212 31313	LFR-box FL2.24 /58
1750	4822 212 31314	LFR-box FL2.24 /62
1001	4822 242 72572	Crystal 12 MHz
1002	4822 242 71417	Crystal 13,875 MHz

⊣⊢

2000	4822 122 33496	100nF 10% 63V
2001	*4822 122 33496*	*100nF 10% 63V*
2002	4822 122 33496	100nF 10% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 122 33496	100nF 10% 63V
2005	4822 122 33496	100nF 10% 63V
2006	4822 124 40731	330µF 20% 6,3V
2007	4822 122 33496	100nF 10% 63V
2010	4822 122 33496	100nF 10% 63V
2011	4822 122 33496	100nF 10% 63V
2012	4822 122 33496	100nF 10% 63V
2013	4822 122 33496	100nF 10% 63V
2014	4822 122 33496	100nF 10% 63V
2015	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2017	4822 122 33496	100nF 10% 63V
2018	4822 122 33496	100nF 10% 63V
2022	4822 122 33496	100nF 10% 63V
2023	4822 122 33496	100nF 10% 63V
2026	4822 122 32083	8,2pF 5% 50V
2027	4822 122 31961	68pF 2% 63V
2028	4822 122 31772	47pF 2% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 32083	8,2pF 5% 50V
2031	4822 122 31767	150pF 2% 63V
2032	4822 122 31772	47pF 2% 63V
2033	4822 122 32083	8,2pF 5% 50V
2034	4822 122 33496	100nF 10% 63V
2035	4822 122 31767	150pF 2% 63V
2036	4822 122 31772	47pF 2% 63V
2037	4822 122 31765	100pF 2% 63V
2038	4822 122 31765	100pF 2% 63V
2039	4822 124 41643	100µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 31825	27pF 2% 63V
2043▲	4822 122 32442	10nF 50V
2044▲	4822 122 32442	10nF 50V
2045	4822 124 41576	2,2µF 20% 50V
2046	4822 124 40248	10µF 20% 63V
2047	4822 122 32504	15pF 2% 63V
2048	4822 124 41576	2,2µF 20% 50V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 41997	470µF 10V
2051	4822 122 32504	15pF 2% 63V
2052	4822 122 32142	270pF 2% 63V
2053	4822 122 32891	68nF 10% 63V
2054	4822 122 32504	15pF 2% 63V
2055	5322 122 31647	1nF 10% 63V
2056	4822 122 31727	470pF 2% 63V
2057	4822 122 31797	22nF 10% 63V
2058	4822 122 32142	270pF 2% 63V
2059	4822 122 31765	100pF 2% 63V
2060	4822 122 31825	27pF 2% 63V
2061	4822 122 31825	27pF 2% 63V
2062	4822 122 31825	27pF 2% 63V
2063	4822 122 31772	47pF 2% 63V
2064	4822 124 41643	100µF 20% 16V
2065	4822 122 33496	100nF 10% 63V
2066	*4822 122 33496*	*100nF 10% 63V*
2067	4822 122 33496	100nF 10% 63V
2068	4822 122 33496	100nF 10% 63V
2069	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 124 41643	100µF 20% 16V
2072	5322 122 31647	1nF 10% 63V
2073	4822 122 31839	82pF 2% 63V
2074	4822 122 31981	33nF 5% 50V
2075	4822 122 33496	100nF 10% 63V
2076	5322 122 31842	330pF 2% 63V
2077	4822 124 41576	2,2µF 20% 50V
2078	4822 122 33496	100nF 10% 63V
2079	4822 121 42937	2,7nF 1% 250V
2080	5322 124 41431	22µF 20% 35V
2081▲	4822 124 40246	4,7µF 20% 63V
2082	4822 122 31772	47pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31825	27pF 2% 63V
2087	4822 122 31825	27pF 2% 63V
2088	*4822 122 31797*	*22nF 10% 63V*
2090	4822 122 31772	47pF 2% 63V
2091	4822 122 31746	1nF 2% 63V
2092▲	4822 124 40433	47µF 20% 25V
2093	4822 124 41997	470µF 10V
2094	4822 122 33496	100nF 10% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31746	1nF 2% 63V
2098	4822 124 22606	68µF 20% 16V
2099	4822 122 33496	100nF 10% 63V
2100	4822 122 33496	100nF 10% 63V
2102	4822 122 31644	2,2nF 10% 63V
2103	4822 124 41097	220µF 20% 16V
2105	4822 122 33496	100nF 10% 63V
2106	4822 124 41643	100µF 20% 16V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 31765	100pF 2% 63V
2109	4822 122 32506	5,6pF 5% 50V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31842	330pF 2% 63V
2112	4822 122 31981	33nF 5% 50V
2113	4822 122 31644	2,2nF 10% 63V
2114	4822 126 11492	220nF 10% 50V
2115	4822 126 11492	220nF 10% 50V
2116	4822 122 31768	180pF 2% 63V
2117▲	4822 122 32442	10nF 50V
2118	4822 122 33496	100nF 10% 63V
2119	4822 122 33496	100nF 10% 63V
2120	4822 122 31965	220pF 2% 63V
2121	4822 122 31965	220pF 2% 63V
2122	5322 122 31842	330pF 2% 63V
2123	4822 122 33496	100nF 10% 63V
2124	4822 122 31767	150pF 2% 63V
2125	4822 122 33498	2,7nF 10% 63V
2126	4822 122 33496	100nF 10% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31767	150pF 2% 63V
2129	4822 122 33496	100nF 10% 63V
2130	4822 122 31771	390pF 2% 63V
2131	*4822 122 31825*	*27pF 2% 63V*
2132	5322 122 31842	330pF 2% 63V
2133	4822 122 31825	27pF 2% 63V
2134	4822 122 31771	390pF 2% 63V
2136	4822 122 31825	27pF 2% 63V
2150▲	4822 124 40433	47µF 20% 25V
2151	4822 122 31772	47pF 2% 63V
2152	4822 122 33496	100nF 10% 63V
2153	4822 122 31772	47pF 2% 63V
2160	*4822 122 33498*	*2,7nF 10% 63V*
2161	4822 122 31825	27pF 2% 63V
2162	4822 122 31971	10pF 2% 63V
2163	4822 126 11492	220nF 10% 50V
2164	4822 122 31971	10pF 2% 63V
2165	4822 126 10324	33pF 2% 63V
2166	4822 122 31772	47pF 2% 63V
2167	4822 122 31772	47pF 2% 63V
2168	4822 126 10324	33pF 2% 63V
2169	4822 124 40849	330µF 20% 16V
2170	4822 122 32139	12pF 2% 63V
2172	4822 122 31839	82pF 2% 63V
2175	4822 122 33496	100nF 10% 63V
2179	4822 122 33496	100nF 10% 63V
2180	4822 122 31797	22nF 10% 63V
2181	4822 122 31772	47pF 2% 63V
2184	4822 122 32139	12pF 2% 63V
2185▲	4822 124 40433	47µF 20% 25V
2186▲	4822 124 40433	47µF 20% 25V
2187	4822 124 40731	330µF 20% 6,3V
2188	4822 122 31772	47pF 2% 63V
2190	4822 126 11492	220nF 10% 50V

⊏⊐

3000	4822 051 10162	1k6 2% 0,25W
3001▲	4822 111 41424	22Ω 5% 0,3W
3002▲	4822 051 10242	2k4 2% 0,25W
3003	4822 051 10682	6k8 2% 0,25W
3004▲	4822 051 10472	4k7 2% 0,25W
3006▲	4822 050 24708	4Ω7 1% 0,6W
3007	4822 051 10209	20Ω 2% 0,25W
3008	4822 051 10008	0Ω 5% 0,25W
3009	4822 051 10829	82Ω 2% 0,25W
3011	4822 051 10101	100Ω 2% 0,25W
3012	4822 051 10339	33Ω 2% 0,25W
3013	4822 051 52201	220Ω 1% 0,125W
3014	4822 051 10101	100Ω 2% 0,25W
3016	4822 051 10759	75Ω 2% 0,25W
3017	4822 051 53601	360Ω 1% 0,125W
3019	4822 111 41423	18Ω 5% 0,3W
3020	4822 051 10181	180Ω 2% 0,25W
3021	4822 051 10101	100Ω 2% 0,25W
3022	4822 051 10101	100Ω 2% 0,25W
3023	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 10473	47k 2% 0,25W
3025	*4822 051 10102*	*1k 2% 0,25W*
3026	4822 051 10181	180Ω 2% 0,25W
3027	4822 051 10132	1k3 2% 0,25W
3028	4822 051 10221	220Ω 2% 0,25W
3029	4822 051 10683	68k 2% 0,25W
3030	4822 051 10681	680Ω 2% 0,25W
3031	4822 051 10561	560Ω 2% 0,25W
3032	4822 051 10561	560Ω 2% 0,25W
3033	4822 051 10561	560Ω 2% 0,25W
3034	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 20222	2k2 5% 0,1W
3036	4822 051 10221	220Ω 2% 0,25W
3037▲	4822 111 41424	22Ω 5% 0,3W
3038▲	4822 051 10103	10k 2% 0,25W
3039	4822 051 10683	68k 2% 0,25W
3040	4822 051 10104	100k 2% 0,25W
3041	4822 051 10561	560Ω 2% 0,25W
3042	4822 051 10102	1k 2% 0,25W
3043▲	4822 051 10103	10k 2% 0,25W
3044▲	4822 052 10279	27Ω 5% 0,33W
3045	4822 051 10162	1k6 2% 0,25W
3046	4822 051 10272	2k7 2% 0,25W
3047	4822 051 10332	3k3 2% 0,25W
3048	4822 051 10562	5k6 2% 0,25W
3049	4822 051 10229	22Ω 2% 0,25W
3050	4822 051 10122	1k2 2% 0,25W
3051	4822 051 10303	30k 2% 0,25W
3052	4822 051 10513	51k 2% 0,25W
3053	4822 051 10821	820Ω 2% 0,25W
3054	4822 100 20166	10k 30% lin
3055	4822 051 10181	180Ω 2% 0,25W
3055	4822 051 10221	220Ω 2% 0,25W
3056▲	4822 051 10472	4k7 2% 0,25W
3057▲	4822 051 10472	4k7 2% 0,25W
3058▲	4822 051 10472	4k7 2% 0,25W
3060	4822 051 10123	12k 2% 0,25W
3061	4822 051 10622	6k2 2% 0,25W
3062▲	4822 051 10103	10k 2% 0,25W
3063	4822 051 10471	470Ω 2% 0,25W
3064	4822 051 10104	100k 2% 0,25W
3065	*4822 051 10223*	*22k 2% 0,25W*
3066▲	4822 051 10242	2k4 2% 0,25W
3067	4822 051 10109	10Ω 2% 0,25W
3068▲	4822 051 10103	10k 2% 0,25W
3071	4822 051 10008	0Ω 5% 0,25W
3074▲	4822 051 10242	2k4 2% 0,25W
3075▲	4822 051 10103	10k 2% 0,25W
3076	4822 051 10221	220Ω 2% 0,25W
3078	4822 051 10223	22k 2% 0,25W
3079	4822 051 10471	470Ω 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 051 20222	2k2 5% 0,1W
3084	4822 051 10473	47k 2% 0,25W
3085▲	4822 116 81193	15Ω 5% 0,3W
3086	4822 051 10473	47k 2% 0,25W
3087	4822 051 10151	150Ω 2% 0,25W
3087	4822 051 10471	470Ω 2% 0,25W
3089	4822 116 81192	12Ω 5% 0,3W
3090	4822 051 10102	1k 2% 0,25W
3091	4822 051 51201	120Ω 1% 0,125W
3092	4822 051 10224	220k 2% 0,25W
3093	4822 051 10104	100k 2% 0,25W
3094	4822 051 10124	120k 2% 0,25W
3095	4822 051 10223	22k 2% 0,25W
3096	4822 051 10479	47Ω 2% 0,25W
3097	4822 051 10223	22k 2% 0,25W
3098	4822 051 10151	150Ω 2% 0,25W
3099	4822 051 10272	2k7 2% 0,25W
3100	4822 051 10221	220Ω 2% 0,25W
3101	4822 051 10122	1k2 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 53301	330Ω 1% 0,125W
3105▲	4822 051 10472	4k7 2% 0,25W
3106	4822 051 10152	1k5 2% 0,25W
3107	4822 051 52201	220Ω 1% 0,125W
3108▲	4822 051 10472	4k7 2% 0,25W
3109	4822 051 10109	10Ω 2% 0,25W
3110	4822 051 10681	680Ω 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 10181	180Ω 2% 0,25W
3113	4822 051 10152	1k5 2% 0,25W
3114	4822 051 53601	360Ω 1% 0,125W
3115	4822 051 10101	100Ω 2% 0,25W
3116▲	4822 051 10472	4k7 2% 0,25W
3117	4822 051 10102	1k 2% 0,25W
3118	4822 051 56201	620Ω 1% 0,125W
3119▲	4822 051 10103	10k 2% 0,25W
3120	4822 051 10271	270Ω 2% 0,25W
3121	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10221	220Ω 2% 0,25W
3125	4822 051 52701	270Ω 1% 0,125W
3127	4822 051 59101	910Ω 1% 0,125W
3128	4822 051 10271	270Ω 2% 0,25W
3160	4822 051 10562	5k6 2% 0,25W
3161	4822 051 20222	2k2 5% 0,1W
3162	*4822 051 10102*	*1k 2% 0,25W*
3163	4822 051 20222	2k2 5% 0,1W
3166	4822 051 10569	56Ω 2% 0,25W
3167	4822 051 53301	330Ω 1% 0,125W
3168	4822 051 10471	470Ω 2% 0,25W
3169▲	4822 051 10103	10k 2% 0,25W
3176	4822 051 10221	220Ω 2% 0,25W
3180	4822 051 10101	100Ω 2% 0,25W
3181	*4822 051 10101*	*100Ω 2% 0,25W*
3182	4822 051 10102	1k 2% 0,25W
3183	4822 051 10471	470Ω 2% 0,25W
3184	4822 051 10101	100Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10102	1k 2% 0,25W
3203	4822 051 10102	1k 2% 0,25W
3227	4822 051 10151	150Ω 2% 0,25W
3228	4822 051 10182	1k8 2% 0,25W
3300	4822 051 10339	33Ω 2% 0,25W
3300	4822 051 10279	27Ω 2% 0,25W
3300	4822 051 10569	56Ω 2% 0,25W
3300	4822 051 10471	470Ω 2% 0,25W
3300	4822 051 10561	560Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5000	4822 157 50961	22µH 10%
5001	4822 157 60147	2,2µH
5002	4822 157 60147	2,2µH
5003	4822 157 60147	2,2µH
5004	4822 157 60147	2,2µH
5005	4822 157 60147	2,2µH
5006	4822 157 60147	2,2µH
5007	4822 157 60147	2,2µH
5008	4822 157 52403	3,3µH 10%
5009	4822 157 60147	2,2µH
5010	4822 157 52403	3,3µH 10%
5011	4822 157 60147	2,2µH
5012	4822 157 52403	3,3µH 10%
5013	4822 157 60147	2,2µH
5014	4822 157 52224	15µH 10%
5015	4822 157 60147	2,2µH
5016	4822 157 52138	27µH 10%
5017	4822 157 60147	2,2µH
5018	4822 157 60147	2,2µH
5019	4822 157 52403	3,3µH 10%
5020	4822 157 60147	2,2µH
5021	4822 157 60147	2,2µH
5022	*4822 157 60498*	*56µH 10%*
5023	4822 156 11145	1,0µH 6%
5025	4822 156 11143	4,3µH 6%
5026	4822 157 60147	2,2µH
5027	4822 156 11144	3,3µH 6%
5028	4822 157 60147	2,2µH
5030	4822 157 63834	3,9µH 10%
5031	4822 157 63834	3,9µH 10%
5032	*4822 157 63834*	*3,9µH 10%*
5033	4822 152 20677	10µH 10%
5034	4822 157 60147	2,2µH
5035	4822 157 53634	5,6µH 10%

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6000	4822 130 80446	LL4148
6001	4822 130 80884	LLZ-C5V1
6002	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6005	4822 130 80446	LL4148
6006	4822 130 31253	BZX55-C2V4
6007	4822 130 80888	BA682
6008	4822 130 80888	BA682
6009	5322 130 80119	BBY40
6010	5322 130 80119	BBY40
6013	4822 130 80954	LLZ-C5V6
6014	4822 130 80446	LL4148

⊗ ▭

7000	5322 130 42136	BC848C
7010	5322 130 42136	BC848C
7011	5322 130 41983	BC858B
7012▲	5322 130 41982	BC848B
7013	4822 130 61207	BC848
7014	5322 130 41983	BC858B
7022▲	5322 130 41982	BC848B
7023	4822 130 42513	BC858C
7024	5322 130 42012	BC858
7025	5322 130 41983	BC858B
7026▲	5322 130 4	
7027	4822 130 6	
7029▲	5322 130 4	
7030	4822 130 4	
7034	4822 130 4	
7035	4822 130 4	
7036	5322 130 4	
7037	4822 130 6	
7038	5322 130 4	
7039	5322 130 4	
7040	4822 130 4	
7042	5322 130 4	
7060	5322 130 4	
7120	4822 209 3	
7201	4822 209 3	
7202	4822 209 3	
7203	4822 209 3	
7204	4822 209 6	
7205	4822 209 6	
7206	4822 209 6	
7207	4822 209 3	
7208	4822 209 3	
7209	4822 209 3	
7210	4822 209 7	
7214	4822 209 6	
7215	4822 209 3	
7215	4822 209 3	
7215	4822 209 3	
7216	4822 209 6	
7217	4822 209 6	
7218	5322 209 6	
7219	4822 209 6	
7221▲	4822 209 8	
7231	4822 209 7	
7232	4822 209 5	
7244	5322 209 6	
7261	4822 209 7	

ECO-box [L

4822 255 4
4822 265 4

Various

1750	4822 212 3
1064	4822 242 7
1162	4822 242 7

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2001	4822 122 3
2002	4822 122 3
2004	4822 122 3
2005	4822 122 3
2006	4822 122 3
2007	4822 122 3
2008	4822 122 3
2009	4822 122 3
2010	*4822 124 2*
2011	4822 122 3
2012	4822 124 4
2013	4822 122 3
2016	4822 122 3
2019	4822 122 3
2024	4822 126 1
2025▲	4822 124 4
2026	4822 122 3
2027▲	4822 124 4
2028	4822 122 3
2029	4822 122 3
2030	4822 122 3
2031	4822 124 4
2032	4822 122 3
2033	4822 124 4
2034	4822 122 3
2035▲	4822 124 4
2036	4822 124 41
2037	4822 122 3
2038	4822 122 3
2040	4822 122 3
2041	4822 122 3
2042	4822 122 3
2046	4822 122 31
2047	4822 122 31
2048	4822 122 3
2049	4822 122 3
2050	4822 122 3
2051	4822 122 3
2052	4822 122 3
2053	4822 122 3

% 0,25W
2% 0,25W
1% 0,125W
1% 0,125W
2% 0,25W
% 0,25W
% 0,1W
0,25W
% 0,1W
% 0,25W

1% 0,125W
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H 6%
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H 10%
H 10%

H 10%
10%
H
H 10%

48
C5V1
48
35
48
48
55-C2V4
32
32
40

40
C5V6
48

48C
48C
58B
48B
48
58B
48B
58C
58
58B

7026▲	5322 130 41982	BC848B
7027	4822 130 61207	BC848
7029▲	5322 130 41982	BC848B
7030	4822 130 40938	BC548
7034	4822 130 42131	BF550
7035	4822 130 42513	BC858C
7036	5322 130 42136	BC848C
7037	4822 130 61207	BC848
7038	5322 130 42136	BC848C
7039	5322 130 42136	BC848C
7040	4822 130 42131	BF550
7042	5322 130 42136	BC848C
7060	5322 130 42136	BC848C
7120	4822 209 33289	P83C652FFP/050V34D
7201	4822 209 32483	MSM514221A
7202	4822 209 32483	MSM514221A
7203	4822 209 32483	MSM514221A
7204	4822 209 60525	TMS4C1050-3N
7205	4822 209 60525	TMS4C1050-3N
7206	4822 209 60525	TMS4C1050-3N
7207	4822 209 31056	SDA9205-2
7208	4822 209 31057	UPD65640G-011-3B9
7209	4822 209 31059	SAA7158
7210	4822 209 72042	MC78L05ACP
7214	4822 209 63645	SAA5231/V7
7215	4822 209 31851	SAA9042P/A/MOB
7215	4822 209 33287	SAA9042P/B/MOB/58
7215	4822 209 33288	SAA9042P/C/MOB/62
7216	4822 209 63423	TDA2579B/N2
7217	4822 209 63644	SDA9086-3
7218	5322 209 61004	N74F74D
7219	4822 209 63892	UPD65636C-040
7221▲	4822 209 83163	LM833N
7231	4822 209 72042	MC78L05ACP
7232	4822 209 52359	HYB514256B-70
7244	5322 209 61004	N74F74D
7261	4822 209 72042	MC78L05ACP

ECO-box [L']

	4822 255 41312	PLCC socket 68P
	4822 265 41328	10P female

Various

1750	4822 212 31392	ECO-box FL4.27
1064	4822 242 72572	Crystal 12 MHz
1162	4822 242 71417	Crystal 13,875

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2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V
2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47μF 20% 50V
2011	4822 122 33496	100nF 10% 63V
2012	4822 124 41643	100μF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 126 11492	220nF 10% 50V
2025▲	4822 124 40196	220μF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220μF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40248	10μF 20% 63V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40248	10μF 20% 63V
2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220μF 20% 16V
2036	4822 124 41643	100μF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 31972	39pF 2% 63V
2048	4822 122 32142	270pF 2% 63V
2049	4822 122 31769	18pF 2% 63V
2050	4822 122 31971	10pF 2% 63V
2051	4822 122 31767	150pF 2% 63V
2052	4822 122 32083	8,2pF 5% 50V
2053	4822 122 31772	47pF 2% 63V
2055	4822 122 32083	8,2pF 5% 50V
2056	4822 122 31767	150pF 2% 63V
2057	4822 122 31772	47pF 2% 63V
2058	4822 122 33496	100nF 10% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33496	100nF 10% 63V
2064	4822 122 31825	27pF 2% 63V
2065	4822 122 31971	10pF 2% 63V
2066	4822 122 33496	100nF 10% 63V
2070	4822 122 31765	100pF 2% 63V
2071	4822 122 31765	100pF 2% 63V
2072	4822 122 31765	100pF 2% 63V
2073	5322 122 33446	3,3nF 10% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 31765	100pF 2% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31765	100pF 2% 63V
2090	4822 122 33496	100nF 10% 63V
2091	4822 122 33498	2,7nF 10% 63V
2092	4822 122 33496	100nF 10% 63V
2094	4822 122 31765	100pF 2% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31644	2,2nF 10% 63V
2100▲	4822 124 40196	220μF 20% 16V
2101	4822 122 33496	100nF 10% 63V
2105	4822 122 33496	100nF 10% 63V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31647	1nF 10% 63V
2112	4822 122 31839	82pF 2% 63V
2113	4822 122 33496	100nF 10% 63V
2114	4822 122 33496	100nF 10% 63V
2118	4822 121 42937	2,7nF 1% 250V
2122	4822 122 31765	100pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 31746	1nF 2% 63V
2126	4822 122 31746	1nF 2% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40248	10μF 20% 63V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2μF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100μF 20% 16V
2152	4822 122 31825	27pF 2% 63V
2155	4822 122 32504	15pF 2% 63V
2156	5322 122 31647	1nF 10% 63V
2157	4822 122 31727	470pF 2% 63V
2158	4822 122 31797	22nF 10% 63V
2159	4822 122 32142	270pF 2% 63V
2160	4822 122 31765	100pF 2% 63V
2161	4822 122 32891	68nF 10% 63V
2162	4822 122 32504	15pF 2% 63V
2163▲	4822 122 32442	10nF 50V
2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2μF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470μF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31825	27pF 2% 63V
2181	4822 122 31825	27pF 2% 63V
2182	4822 122 31825	27pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 40248	10μF 20% 63V
2211	4822 122 33496	100nF 10% 63V

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3001	4822 051 10151	150Ω 2% 0,25W
3002	4822 051 10101	100Ω 2% 0,25W
3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3023	4822 051 10271	270Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3075	4822 051 10102	1k 2% 0,25W
3076▲	4822 051 10472	4k7 2% 0,25W
3077▲	4822 051 10472	4k7 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10221	220Ω 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 116 52195	47Ω 5% 0,5W
3084	4822 051 10272	2k7 2% 0,25W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3090▲	4822 051 10103	10k 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3094▲	4822 051 10472	4k7 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W
3098	4822 051 10102	1k 2% 0,25W
3099	4822 117 10823	2k7 1% 0,125W
3100▲	4822 052 10229	22Ω 5% 0,33W
3101▲	4822 051 10103	10k 2% 0,25W
3102▲	4822 051 10103	10k 2% 0,25W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3107	4822 051 10272	2k7 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10272	2k7 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3115	4822 051 10105	1M 5% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10303	30k 2% 0,25W
3119	4822 100 20166	10k 30% lin
3120▲	4822 051 10103	10k 2% 0,25W
3121	4822 051 10332	3k3 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10123	12k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 56203	62k 1% 0,125W
3131	4822 100 11213	22k 30% lin
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137▲	4822 051 10103	10k 2% 0,25W
3137	4822 051 10272	2k7 2% 0,25W
3139▲	4822 051 10103	10k 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3148▲	4822 051 10103	10k 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3152	4822 051 10181	180Ω 2% 0,25W
3154▲	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 52291	56k 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W
3220	4822 116 52244	15k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5001	4822 157 53001	27μH 10%
5002	4822 157 53001	27μH 10%
5004	4822 157 53066	15μH 10%
5007	4822 157 53066	15μH 10%
5011	4822 152 20677	10μH 10%
5012	4822 152 20677	10μH 10%
5025	4822 157 60147	2,2μH
5026	4822 157 60147	2,2μH
5034	4822 157 60147	2,2μH
5035	4822 157 60147	2,2μH
5036	4822 157 60147	2,2μH
5040	4822 157 60147	2,2μH
5041	4822 157 60147	2,2μH
5042	4822 157 60147	2,2μH
5047	4822 157 62552	2,2μH
5049	4822 157 60122	1,5μH 20%
5052	4822 157 60122	1,5μH 20%
5054	4822 157 60122	1,5μH 20%
5063	4822 157 60147	2,2μH
5066	4822 157 60147	2,2μH
5079	4822 152 20677	10μH 10%
5083	4822 157 60147	2,2μH
5146	4822 157 53001	27μH 10%
5152	4822 157 52224	15μH 10%
5169	4822 157 60147	2,2μH
5170	4822 157 60147	2,2μH
5177	4822 157 60147	2,2μH

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6001	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6006	4822 130 82334	BAS85
6023	4822 130 82334	BAS85
6025	4822 130 80446	LL4148
6026	4822 130 83459	BZV55-A5V1
6080	4822 130 80882	BZV55-C3V9
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148

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7010	4822 130 42131	BF550
7011	4822 130 42513	BC858C
7016▲	5322 130 41982	BC848B
7019▲	5322 130 41982	BC848B
7020	4822 130 42513	BC858C
7021▲	5322 130 41982	BC848B
7022	5322 130 42136	BC848C
7023	4822 130 40938	BC548
7025	5322 130 42136	BC848C
7030	5322 130 44743	BSR12
7032▲	5322 130 41982	BC848B
7034▲	5322 130 41982	BC848B
7035	5322 130 41983	BC858B
7036	5322 130 41983	BC858B
7037▲	5322 130 41982	BC848B
7077▲	5322 130 41982	BC848B
7080▲	5322 130 41982	BC848B
7122▲	5322 130 41982	BC848B
7125	5322 130 44743	BSR12
7127	5322 130 41983	BC858B
7142	5322 130 41983	BC858B
7143▲	5322 130 41982	BC848B
7148▲	5322 130 41982	BC848B
7200	4822 209 30402	TDA2579B/N2/S1
7201	4822 209 33044	PC74HC4538T/S245
7202	4822 209 33044	PC74HC4538T/S245
7203▲	4822 209 83163	LM833N
7231	4822 209 31056	SDA9205-2
7240	4822 209 52418	TMS4C1070B-30N
7241	4822 209 52418	TMS4C1070B-30N
7242	4822 209 52418	TMS4C1070B-30N

7245	4822 209 32581	SAA4970T/V1
7250	4822 209 63645	SAA5231/V7
7260	4822 209 72042	MC78L05ACP
7262	5322 209 31799	PC74HC4538T
7265	4822 209 72042	MC78L05ACP
7266	4822 209 63644	SDA9086-3
7269	5322 209 61004	N74F74D
7271	4822 209 52359	HYB514256B-70
7275	4822 209 31851	SAA9042P/A/MOB
7283	4822 209 52422	Eprom + software

PIP panel [J]

	4822 265 31085	5P female
	4822 265 41328	10P female
	4822 265 20509	2P male grey
	4822 265 20511	2P male blue
	4822 265 30828	5P nale brown
	4822 267 41145	5P male
	4822 265 30899	5P male black

Various

1023	4822 212 30839	PIP multi 33"
1023	4822 212 30841	PIP multi 25-28"
1023	4822 212 31315	PIP multi FL2.24-32" -/58
1023	4822 212 31316	PIP multi FL2.24-32"
1023	4822 212 31317	PIP multi FL2.24-28"
1155	4822 320 40284	Delay line DL711G
1201	4822 242 70304	Crystal 8,867 238 MHz
1212	4822 242 70736	Crystal 7,159 090 MHz
1600	4822 210 10392	UV916E
1600	4822 210 50124	UV916E/IEC
1610	4822 242 80295	Crystal OFWG3962M

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2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 11544	22nF 63V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 2% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 2% 63V
2180	4822 122 31768	180pF 2% 63V
2181	4822 122 31768	180pF 2% 63V
2185	4822 126 11544	22nF 63V
2187	4822 126 11544	22nF 63V
2189	4822 122 31746	1nF 2% 63V
2196	4822 122 32183	56nF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	1p8-22p trim.
2211	4822 122 31746	1nF 2% 63V
2212	4822 125 50045	1p8-22p trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40753	6,8µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340▲	4822 124 40433	47µF 20% 25V
2345▲	4822 124 40433	47µF 20% 25V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1nF 2% 63V
2399	4822 122 31961	68pF 2% 63V
2404	4822 122 31965	220pF 2% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 2% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31769	18pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 122 31981	33nF 5% 50V
2452	4822 122 31765	100pF 2% 63V
2453	4822 122 31765	100pF 2% 63V
2455	4822 122 31972	39pF 2% 63V
2456	4822 122 31765	100pF 2% 63V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470▲	4822 124 40196	220µF 20% 16V
2604	4822 124 40195	150µF 20% 16V
2614▲	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF 20% 50V
2618▲	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620▲	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V
2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF 20% 50V

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3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107▲	4822 051 10103	10k 2% 0,25W
3108▲	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200▲	4822 051 10103	10k 2% 0,25W
3201▲	4822 051 10103	10k 2% 0,25W
3202▲	4822 051 10103	10k 2% 0,25W
3211▲	4822 051 10103	10k 2% 0,25W
3212▲	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228▲	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270▲	4822 051 10103	10k 2% 0,25W
3275▲	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330▲	4822 051 10103	10k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336▲	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
3353▲	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464▲	4822 051 10472	4k7 2% 0,25W
3467▲	4822 116 52256	2k2 5% 0,5W
3471▲	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3600▲	4822 051 10103	10k 2% 0,25W
3601▲	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10158	1Ω5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613▲	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3617	4822 051 10751	750Ω 2% 0,25W
3618▲	4822 052 10568	5Ω6 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W
3997	4822 051 10101	100Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10479	47Ω 2% 0,25W
3997	4822 051 10829	82Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5118	4822 157 60435	10,3µH 4,86MHz trim
5155	4822 157 60433	7,2µH 4,4MHz trim
5157	4822 157 60434	9,4µH 4,4MHz trim
5170	4822 157 60432	10,3µH 4,4MHz trim
5175	4822 157 60432	10,3µH 4,4MHz trim
5190	4822 157 60432	10,3µH 4,4MHz trim
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

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6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148

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7103▲	5322 130 41982	BC848B
7105▲	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200▲	5322 130 41982	BC848B
7210▲	5322 130 41982	BC848B
7233▲	5322 130 41982	BC848B
7234▲	5322 130 41982	BC848B
7235▲	5322 130 41982	BC848B
7330	4822 209 73852	PMBT2369
7335▲	5322 130 41982	BC848B
7337▲	5322 130 41982	BC848B
7338▲	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7610	4822 209 32692	TDA8349A/N4
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 63423	TDA2579B/N2

NICAM sound module [K]

	4822 265 41087	Strip 9P

Various

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
1001	4822 242 81527	Crystal 17,472MHz
1002	4822 242 72301	Filter TH316BOM-20800 DAF
1002	4822 242 72303	Filter TH316BQM
1003	4822 242 81187	Crystal 11,700MHz
1003	4822 242 81188	Crystal 13,104MHz
1106	4822 242 72303	Filter TH316BQM

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2000	4822 122 31947	100nF 20% 63V
2001▲	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31768	180pF 2% 63V
2006	5322 122 31842	330pF 2% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31767	150pF 2% 63V
2009▲	4822 122 32442	10nF 50V
2010	4822 122 31767	150pF 2% 63V
2011	4822 122 31766	120pF 2% 63V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1nF 2% 63V
2014▲	4822 122 32442	10nF 50V
2015	4822 125 50045	1p8-22p trim.
2016	4822 122 31961	68pF 2% 63V
2017	4822 121 42408	220nF 5% 63V
2018▲	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020▲	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026▲	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 2% 63V
2028	4822 126 10171	2700pF 2% 63V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2700pF 2% 63V
2032	4822 122 31773	560pF 2% 63V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1nF 2% 63V
2036▲	4822 122 32442	10nF 50V
2037▲	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V

2039	4822 126 11691	150nF 10% 63V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

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3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014▲	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020▲	4822 051 10472	4k7 2% 0,25W
3021▲	4822 051 10472	4k7 2% 0,25W
3022▲	4822 051 10472	4k7 2% 0,25W
3023▲	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029▲	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10123	12k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

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6000▲	4822 130 30621	1N4148
6005	4822 209 30911	OF4076
6006	5322 130 31684	BB809
6050	4822 130 80446	LL4148

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7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAA7280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B
7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	4822 130 60887	BF840
7050	5322 130 42136	BC848C

Combfilter panel [N]

	4822 265 41337	Strip 11P

Various

1300	4822 212 30906	Comb filter panel

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2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40248	10µF 20% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40248	10µF 20% 63V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V
2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025▲	4822 124 40246	4,7µF 20% 63V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V
2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 80283	100µF 6,3V
2051	4822 126 11725	1µF 205 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

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3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W
3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W
3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10102	1k 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10008	0Ω 5% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W
3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10911	910Ω 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10008	0Ω 5% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10562	5k6 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W
3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W
3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W
3094	4822 051 10333	33k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

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5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5080	4822 154 10057	7,2MHz LOW-PASS

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6050▲	4822 130 30621	1N4148
6051	4822 130 31253	BZX79-C2V4

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7000	4822 212 30906	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C
7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B
7092▲	5322 130 41982	BC848B

Black-stretch panel [D']

	4822 265 41376	Strip 13P

Various

1200	4822 212 31276	Black-stretch panel

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2514	4822 124 40195	150µF 20% 16V
2515	4822 124 40272	33µF 20% 16V
2516	4822 124 40849	330µF 20% 16V
2517	4822 124 40242	1µF 20% 63V
2518	4822 126 11544	22nF 63V
2519	4822 121 42408	220nF 5% 63V
2521	4822 124 40248	10µF 20% 63V
2524	4822 126 11544	22nF 63V

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3511	4822 051 10102	1k 2% 0,25W
3512▲	4822 052 10688	6Ω8 5% 0,33W
3513	4822 051 10511	510Ω 2% 0,25W
3514	4822 051 10152	1k5 2% 0,25W
3515	4822 051 10202	2k 2% 0,25W
3516	4822 051 10102	1k 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3518	4822 051 10202	2k 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10394	390k 2% 0,25W
3524	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10122	1k2 2% 0,25W
3532	4822 051 10911	910Ω 2% 0,25W
3533	4822 051 10681	680Ω 2% 0,25W
3550	4822 051 10101	100Ω 2% 0,25W
3552	4822 051 10008	0Ω 5% 0,25W

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6500	4822 130 81513	LLZ-C6V8
6501	4822 130 81223	LLZ-C2V4

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7518	4822 209 30711	CX20125
7519▲	4822 130 41344	BC337-40
7520▲	5322 130 41982	BC848B
7521	5322 130 41983	BC858B
7522▲	5322 130 41982	BC848B
7524	4822 209 63901	TDA4568/V2

Y/C detector [I]

	4822 265 40503	5P female gold plated
	4822 265 30431	3P female gold plated

Various

1021	4822 212 23929	Y/C detector panel
1231	4822 242 80364	Filter 4,43 MHz

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2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF 20% 50V
2228	4822 122 32927	220nF 20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V

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3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204▲	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221▲	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278▲	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282▲	4822 051 10103	10k 2% 0,25W
3283▲	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W
3991	4822 051 10399	39Ω 2% 0,25W

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5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
5202	4822 157 60122	4,7µH 10%

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6258	4822 130 80905	LLZ-F5V1

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7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B